[illegible] – [illegible]

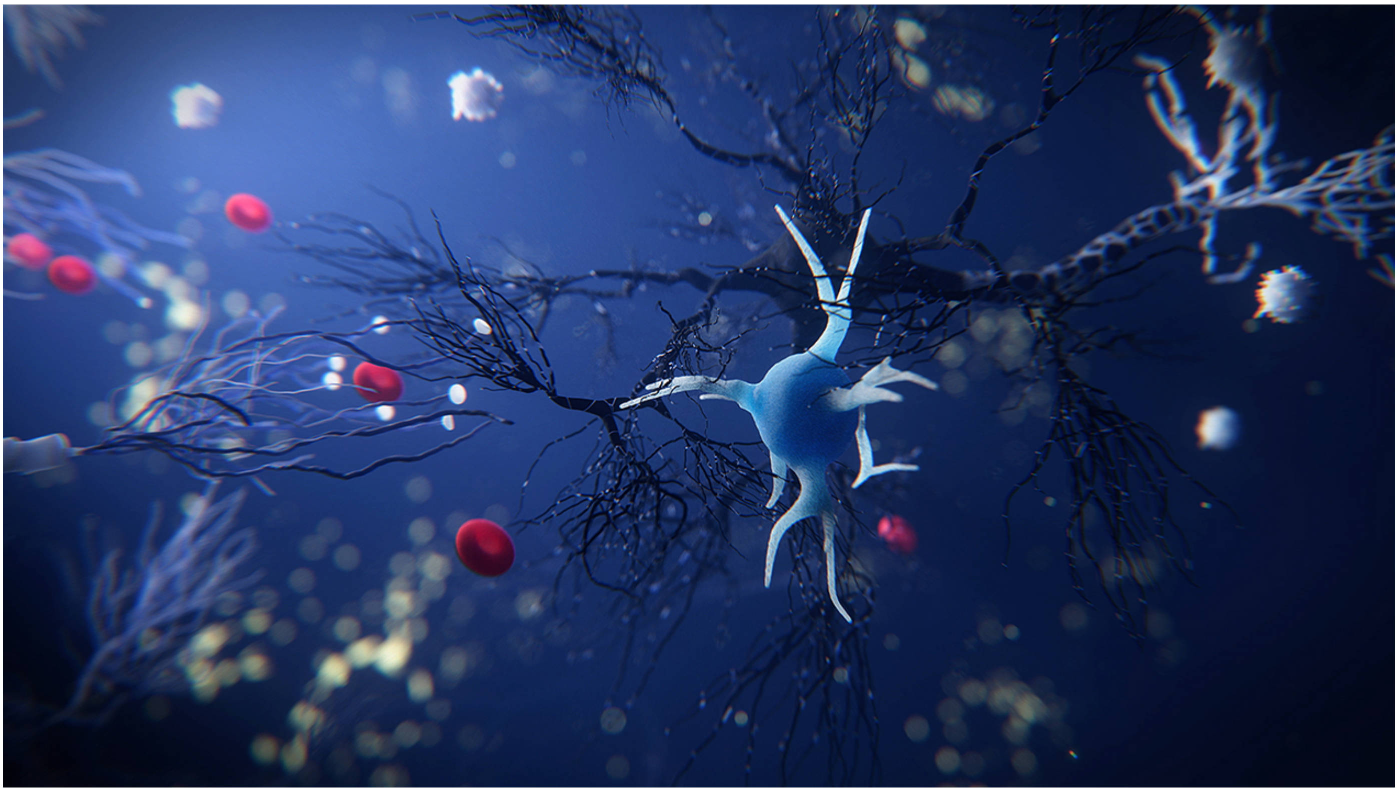
[illegible]

[illegible]

[illegible]CNS[illegible]COVID-19[illegible](Tohidpour et al., 2017)[illegible]PRRs[illegible]PAMPs[illegible]LPS[illegible]DAMPs[illegible]ATP[illegible]PRRs[illegible]

[illegible](Chaney et al., 2021)[illegible]

[illegible]α-[illegible]β[illegible]



[illegible]1[illegible]CNS[illegible]

[illegible]

[illegible]BAMs[illegible]

[illegible]M1[illegible]M2[illegible]M1[illegible]M2[illegible]A1/A2[illegible]

[illegible]

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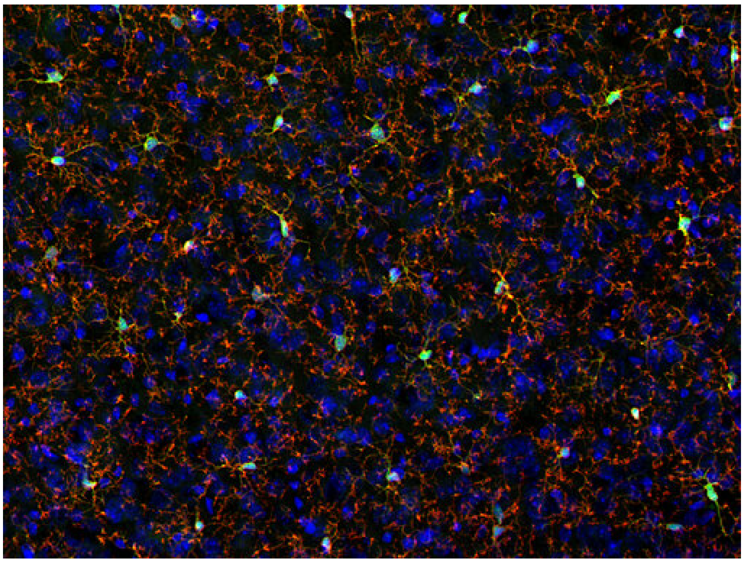
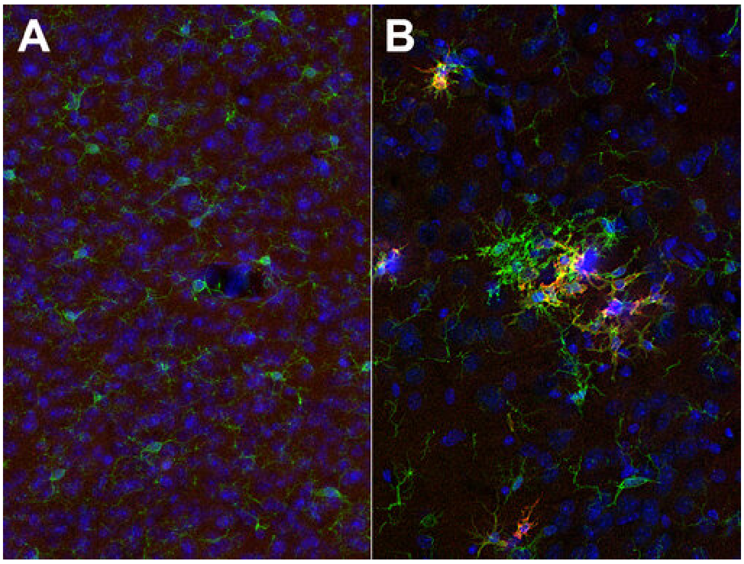
□□□□□□□□□□□□PAMPs □ DAMPs□□-α (TNF-α)□□□□□□IL-1β□IL-6□IL-12□IL-18□□□□γ (IFN-γ)□□□□□□□□□□□□iNOS□□□□□□□□□□□□MCP-1□□□□□□□□□□□□□□□□□□□IL-4□IL-10□IL-13□□□□□□□-β□TGF-β□(Angiulli et al., 2021)□





□ 2□P2Y12 □□□□□□□□□□□□□□□□-P2Y12 (cat. 476 011, 1:2000,□□)□□□□-IBA1(cat. no. 234 308, 1:500, □□)□□□□PFA□□□□□□□□□□□□□□□□□□□□□□□□□□ DAPI□□□□□

□ 3□□□□□-CD11c (cat. no. HS-375 004, □□□□ 1:1000; □□) □□□-IBA1 (cat. no. HS-234 013,□□□□1:1000; □□)□□PFA□□□□A□□□□□□□B□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□CD11c□□□□□□□□□□□□□□□□□□ DAPI□□□□□

□□□P2Y12□□2□□CX3CR1□HexB□TMEM119□□□□□□□□□□□□□□□CD11c□□3□□CD86□□4□□CD11b□IBA1□CD68□F4/80□□□□□□□□□□□□-3□□5□□□□□□□□□□□□□□□□□□□□□□□(Benmamar-Badel et al., 2020, Jurga et al., 2020, Almolda et al., 2015, Garcia-Revilla et al., 2022)□

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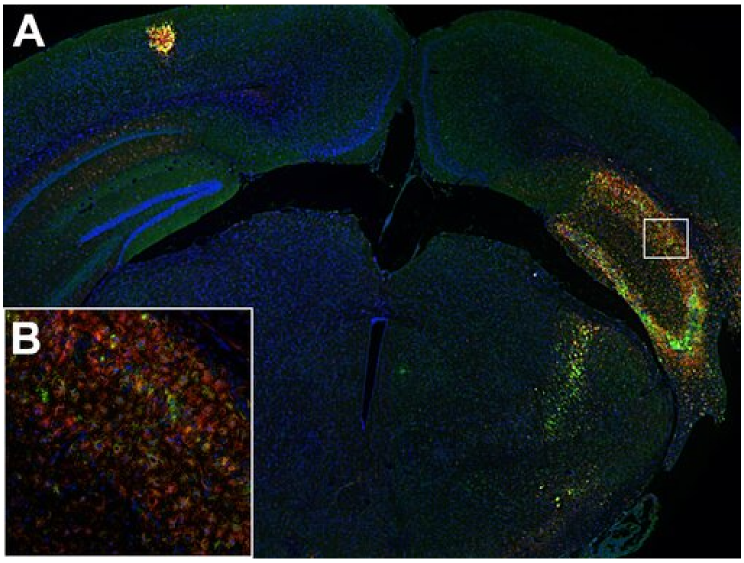
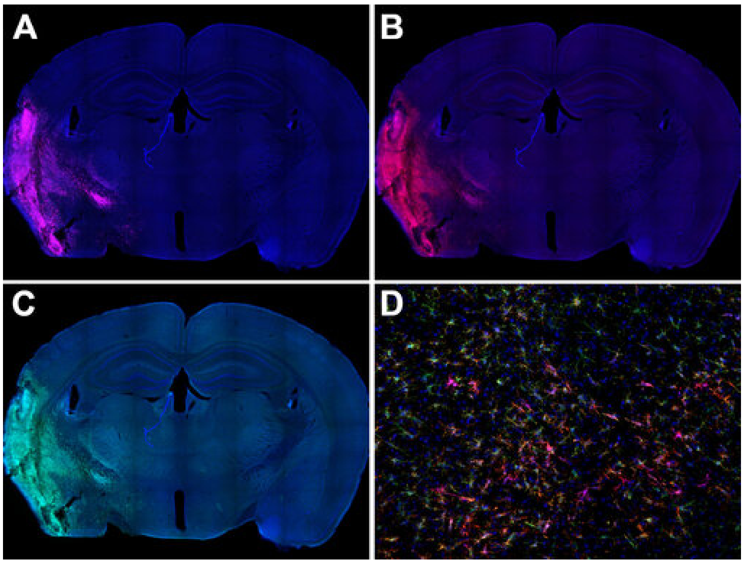
□□□□ (Lima et al., 2022)□
□□□“□□□□□□□□□”(DAM)□□□□□□□□□(Finger et al., 2022)□





□ 4□□A□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□CD86□□□□□□CD11b□□□□□□□B□□□-CD86 (cat. no. HS-466 003, 1:600, □□)□□□□□-CD11b□cat. no. HS-384 117, 1:250, □□□□□,□□□MCAO□□14□□□□□□□□□□□□□□□□ □□ DAPI□□□□□□

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Products migroglia in inflammation

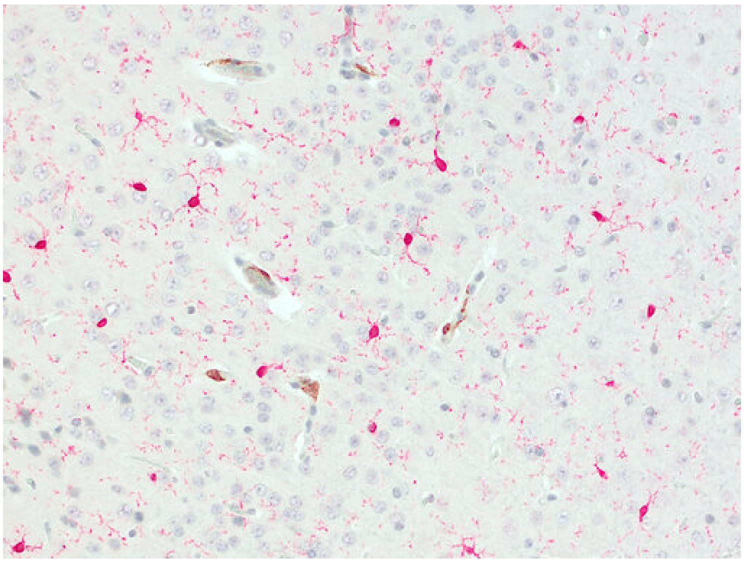
Cat. No.	Product Description	Application	Quantity	Price	Cart
HS-384 008	CD11b, rabbit, recombinant IgG *mouse specific*	WB IHC IHC-P (FFPE) IHC-Fr	100 µl	US$420.00	
HS-384 017	CD11b, rat, IgG *human specific*	WB IHC-P (FFPE)	200 µl	US$420.00	

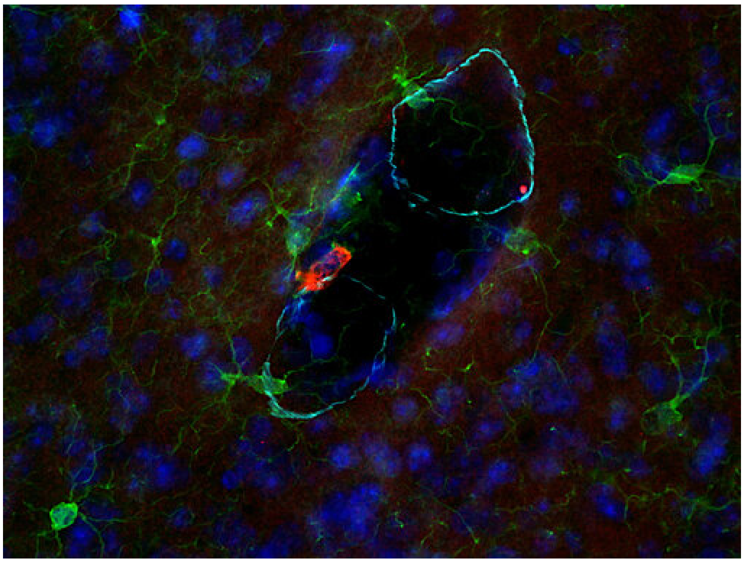
HS-384 018	CD11b, rabbit, recombinant IgG *human specific*	WB IHC-P (FFPE) IHC-Fr	100 µl	US$420.00
HS-384 103	CD11b, rabbit, affinity *mouse specific*	WB ICC IHC IHC-P (FFPE)	200 µl	US$455.00
HS-384 117	CD11b, rat, IgG *mouse specific*	WB IHC IHC-P (FFPE) IHC-Fr	200 µl	US$420.00
HS-384 117BT	CD11b, rat, IgG, biotin *mouse specific*	WB IHC-P (FFPE)	100 µg	US$470.00
HS-384 308	CD11b, Guinea pig, recombinant IgG *mouse specific*	WB IHC IHC-P (FFPE) IHC-Fr	100 µl	US$420.00
375-0P	CD11c, control peptide		100 µg	US$110.00
HS-375 003	CD11c, rabbit, affinity *mouse specific*	WB IHC IHC-P (FFPE)	200 µl	US$375.00
HS-375 004	CD11c, Guinea pig, antiserum *mouse specific*	WB IHC IHC-P (FFPE)	100 µl	US$355.00
HS-375 008	CD11c, rabbit, recombinant IgG *mouse specific*	IHC IHC-P (FFPE)	50 µg	US$420.00
HS-375 013	CD11c, rabbit, affinity	WB IHC IHC-P (FFPE)	50 µg	US$375.00
HS-375 017	CD11c, rat, IgG *mouse specific*	IHC IHC-P (FFPE) IHC-Fr	100 µg	US$420.00
HS-460 003	CD68, rabbit, affinity	WB IHC IHC-P (FFPE)	50 µg	US$375.00
HS-460 004	CD68, Guinea pig, antiserum	IHC IHC-P (FFPE)	100 µl	US$355.00

Result count: **58**

BAMsCNSPNSBAMs(Mildenberg, 2022)

BAMsCD206+CD206BAMsBAMsBAMsBAMsBAMsCNS/PNSBAMsCD2066CD1637BAMsαM (CD11b)IBA1 (Aif1)Csf1RF4/80(Gerganova, 2022)





☒ 6☒CD206☒☒BAMs ☒☒☒☒☒☒☒☒☒-CD206 (cat. no. HS-488 003, DAB, ☒☒) ☒☒☒☒-IBA1(cat. no. HS-234 017, AP-RED, ☒☒)☒☒☒

☒7☒CD163☒IBA1☒☒☒☒☒☒☒☒☒☒☒☒☒☒☒SMA☒☒☒☒☒☒☒☒☒☒☒☒-CD163 (cat. no. HS-455 003, 2 µg/ml, ☒☒)☒☒☒☒-IBA1 (cat. no. 234 011, 1:500,☒☒)☒☒☒☒-α-☒☒☒☒☒☒☒ (SMA) (cat. no. 449 004, 1:500, ☒☒)☒☒☒☒☒PFA☒☒☒☒☒☒☒☒☒☒☒☒☒☒☒☒☒☒☒☒☒☒DAPI☒☒☒☒☒☒☒☒☒

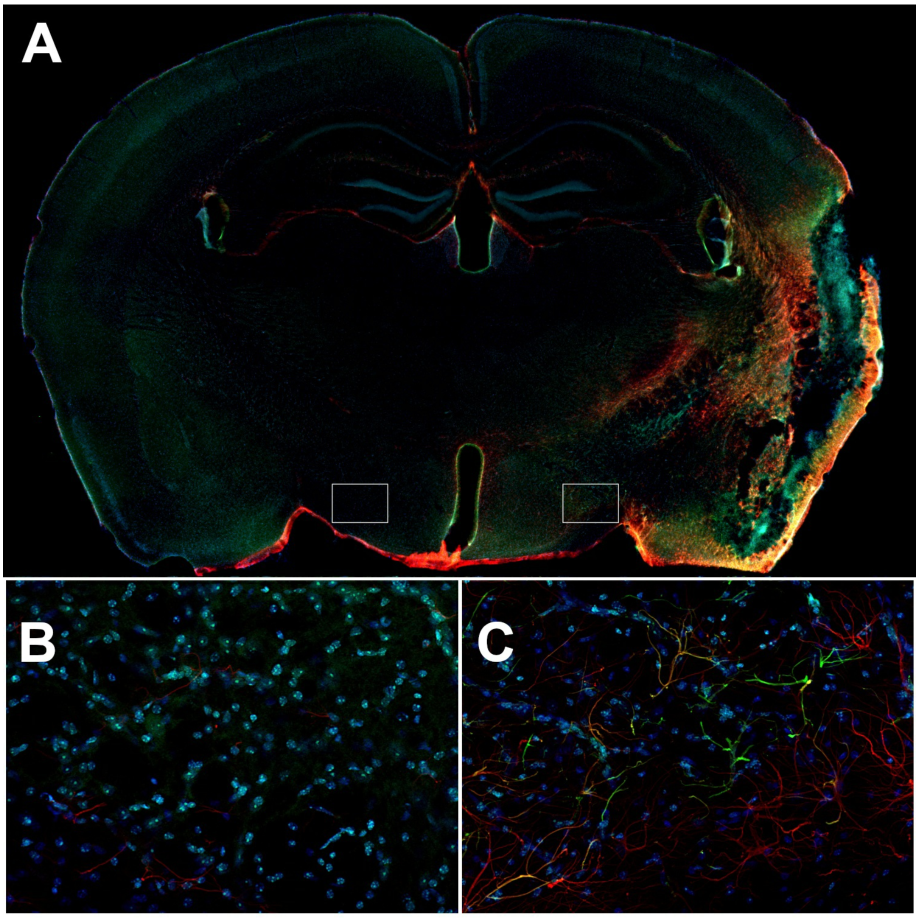
Products border-associated macrophages - BAMs

Cat. No.	Product Description	Application	Quantity	Price	Cart
375-0P	CD11c, control peptide		100 µg	US$110.00	
HS-375 003	CD11c, rabbit, affinity *mouse specific*	WB IHC IHC-P (FFPE)	200 µl	US$375.00	
HS-375 004	CD11c, Guinea pig, antiserum *mouse specific*	WB IHC IHC-P (FFPE)	100 µl	US$355.00	
HS-375 008	CD11c, rabbit, recombinant IgG *mouse specific*	IHC IHC-P (FFPE)	50 µg	US$420.00	
HS-375 013	CD11c, rabbit, affinity	WB IHC IHC-P (FFPE)	50 µg	US$375.00	
HS-375 017	CD11c, rat, IgG *mouse specific*	IHC IHC-P (FFPE) IHC-Fr	100 µg	US$420.00	
455 003	CD163, rabbit, affinity *mouse specific*	WB IHC IHC-P (FFPE)	200 µl	US$375.00	
HS-455 004	CD163, Guinea pig, antiserum *mouse specific*	IHC IHC-P (FFPE)	100 µl	US$355.00	
HS-455 013	CD163, rabbit, affinity *human specific*	IHC IHC-P (FFPE)	50 µg	US$375.00	
HS-455 014	CD163, Guinea pig, antiserum *human specific*	IHC-P (FFPE)	100 µl	US$355.00	
HS-488 003	CD206, rabbit, affinity	WB ICC IHC IHC-P (FFPE)	50 µg	US$375.00	
HS-488 005	CD206, Guinea pig, affinity	WB IHC IHC-P (FFPE)	50 µg	US$420.00	
397 017	F4/80, rat, IgG	WB IHC IHC-P (FFPE) IHC-Fr	200 µl	US$420.00	
397 308	F4/80, Guinea pig, recombinant IgG	WB IHC IHC-P (FFPE)	50 µg	US$420.00	
HS-397 004	F4/80, Guinea pig, antiserum	IHC IHC-P (FFPE)	100 µl	US$355.00	

Result count: **29**

[illegible]50%[illegible]Alghamri et al., 2021[illegible](Chiareli et al., 2021)[illegible]

[illegible]GFAP[illegible](Singh, 2022) ([illegible]8)[illegible]S100B[illegible](Higashino et al., 2009)[illegible]C[illegible]ALDOC[illegible](Haddadi et al., 2022)[illegible]1[illegible]EAAT1, GLAST[illegible](Beschorner et al., 2007)[illegible]GS[illegible](Sandhu et al., 2021)[illegible]Aβ[illegible](Chiarini, 2020)[illegible](Tang et al., 2021; Liddelow et al., 2017; Escartin et al., 2021)[illegible]EAAT2[illegible](Dahlmanns et al, 2023)[illegible](Reid and Kuipers, 2021; Rothhammer and Quintana, 2015)[illegible]



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[illegible](Chiareli et al., 2021)[illegible]

[illegible]T[illegible](Kölliker-Frers et al., 2021)[illegible]CXCL10[illegible]CCL2[illegible]CXCR2[illegible]CCL3[illegible]IL-4[illegible]IL-6[illegible]IL-10[illegible]IL-12[illegible](Kölliker-Frers et al., 2021)[illegible]OPCs[illegible]NG2[illegible]T[illegible](Psenicka et al., 2021, Poggi et al., 2023)[illegible]

Products Astrocytes & Oligodendrocytes in inflammation

Cat. No.	Product Description	Application	Quantity	Price	Cart

464 004	Aldolase C, Guinea pig, antiserum	WB ICC IHC	100 µl	US$370.00
250 103	EAAT1, rabbit, affinity K.O. *extracellular*	WB	50 µg	US$380.00
250 113	EAAT1, rabbit, affinity K.O. *cytoplasmic domain*	WB IP ICC IHC IHC-P (FFPE)	50 µg	US$380.00
250 114	EAAT1, Guinea pig, antiserum *cytoplasmic domain*	WB ICC IHC IHC-P (FFPE)	100 µl	US$370.00
250 116	EAAT1, chicken, IgY fraction *cytoplasmic domain*	WB ICC IHC	200 µl	US$365.00
250-11P	EAAT1, control peptide *cytoplasmic domain*		100 µg	US$110.00
250-1P	EAAT1, control peptide *extracellular*		100 µg	US$110.00
250 203	EAAT2, rabbit, affinity K.O. *extracellular*	WB ICC IHC IHC-P (FFPE)	50 µg	US$385.00
250 204	EAAT2, Guinea pig, antiserum K.O. *extracellular*	WB ICC IHC IHC-P (FFPE)	100 µl	US$370.00
250 208	EAAT2, rabbit, recombinant IgG *extracellular*	WB ICC IHC IHC-P (FFPE)	50 µg	US$420.00
250 211	EAAT2, mouse, IgG *extracellular*	WB ICC IHC IHC-P (FFPE)	100 µg	US$420.00
250-2P	EAAT2, control peptide *extracellular*		100 µg	US$110.00
173 002	GFAP, rabbit, antiserum	WB IP ICC IHC IHC-P (FFPE)	200 µl	US$365.00
173 004	GFAP, Guinea pig, antiserum K.O. **discontinued, replacement: 173 308**	WB IP ICC IHC IHC-P (FFPE)	100 µl	
173 006	GFAP, chicken, affinity K.O.	ICC IHC IHC-P (FFPE) DNA-PAINT iDISCO	50 µg	US$390.00

Result count: **42**

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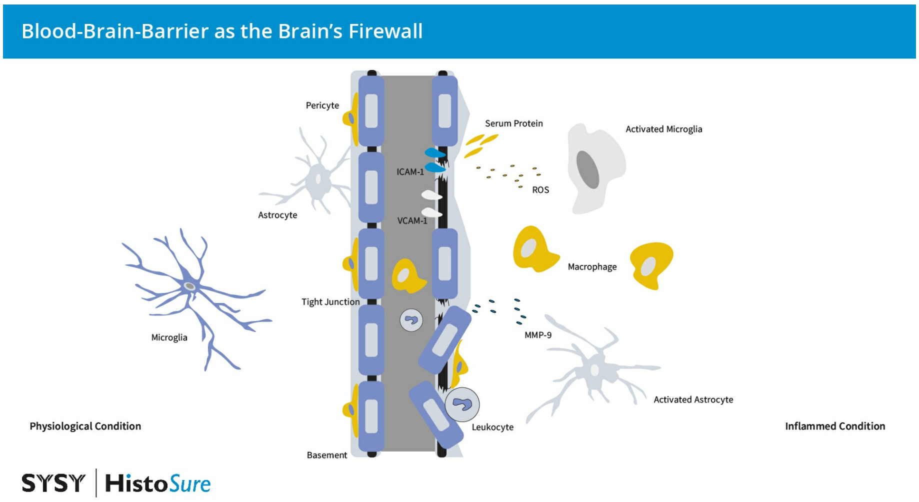
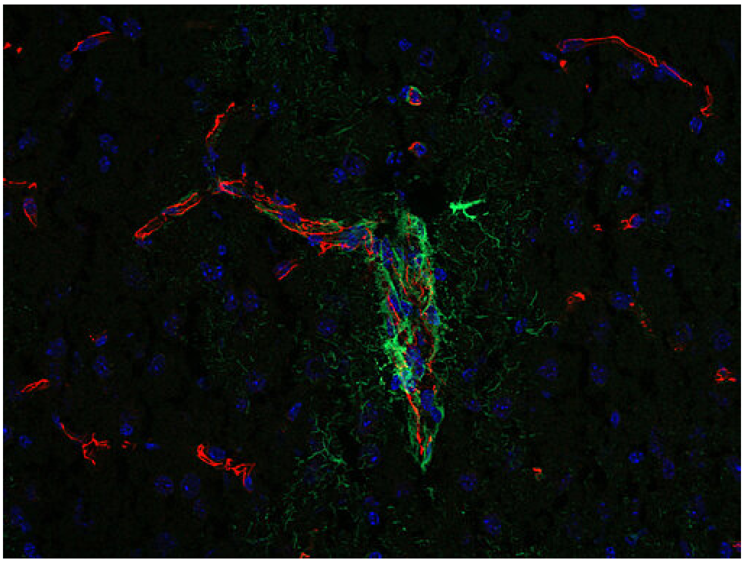
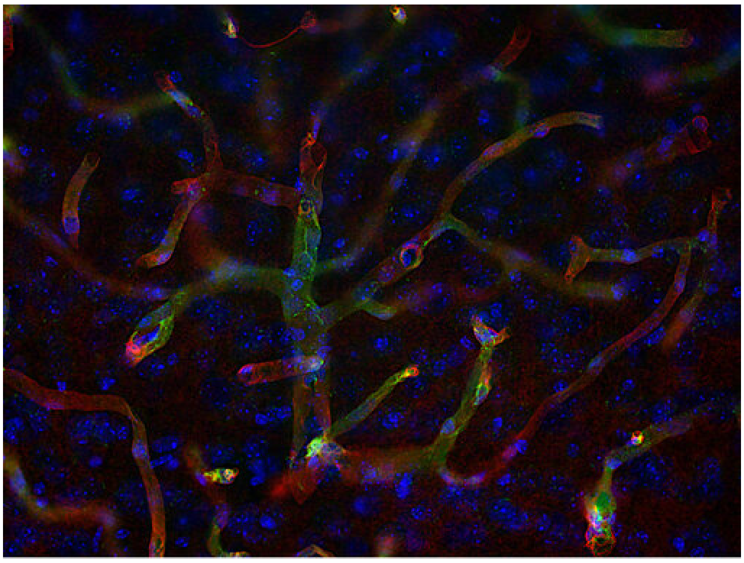


□ 9□□□□MMPs□□□□□□□□□□□□□□□□□□□ROS□□MMP-9□□□□□□□□□□□□ ICAM1□VCAM1□□□

□□□□□BBB□□□BMECs□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□9□□BMECs□□□□□□□□TJs□□□□□□□AJs□□□□□□□□5□□□□□□□10□□□(TfR)□□□□□□□□□□□LDLR□

[illegible]-1[illegible]GLUT1[illegible](Han and Jiang et al., 2020)[illegible]





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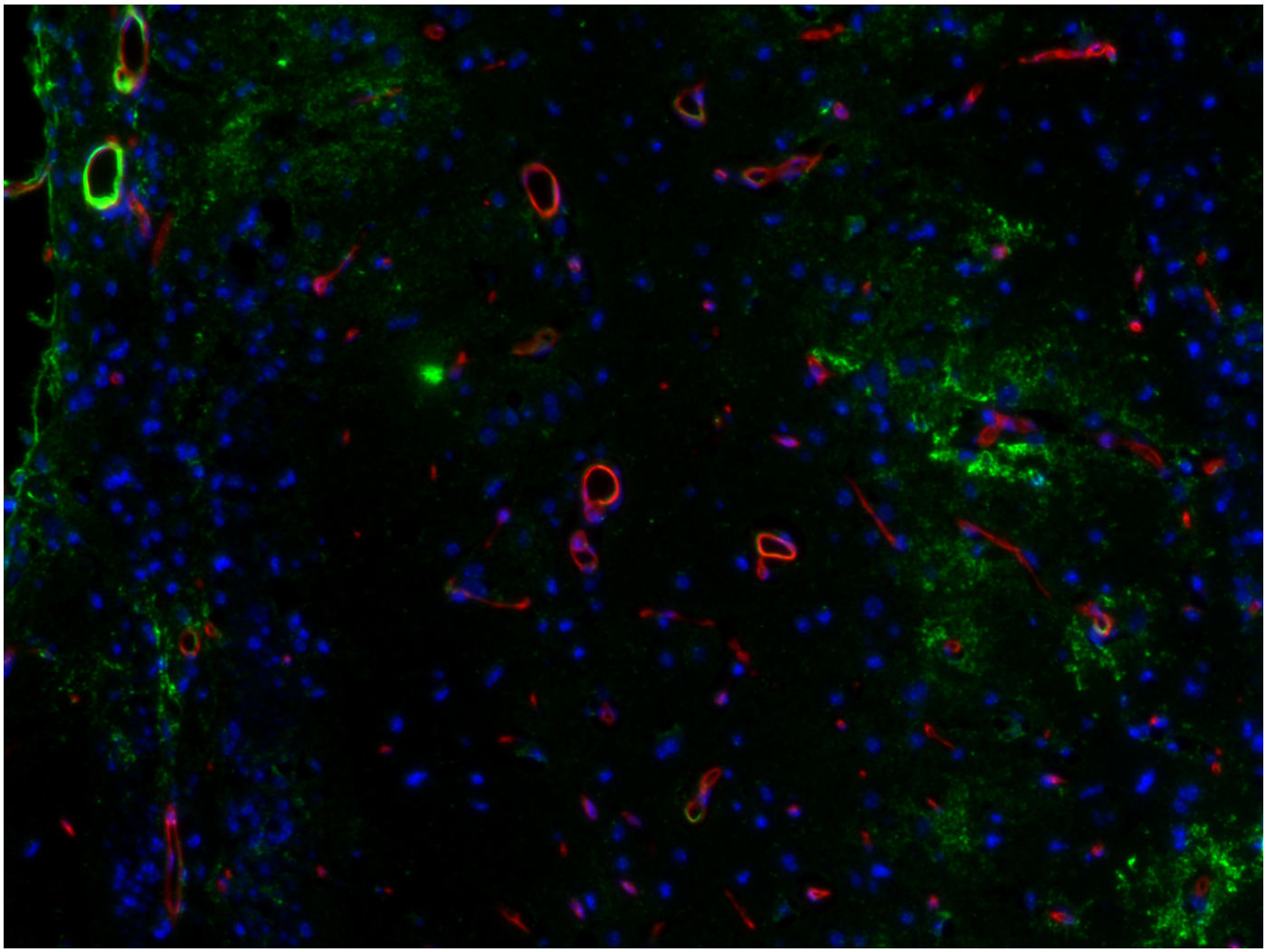
[illegible]11[illegible] [illegible]-4 (AQP4)[illegible]-AQP4 (cat. no. 429 011, 1:500,[illegible])[illegible]-CD31 (cat. no. HS-351 117, 1:500,[illegible])[illegible]PFA[illegible]DAPI[illegible]

[illegible](Hussain et al., 2021)[illegible]1[illegible]VCAM1[illegible](Profaci et al., 2020)[illegible](Hall et al., 2014)[illegible](Sun et al., 2022)[illegible]

[illegible]-4[illegible]AQP4[illegible]11[illegible]4[illegible]4[illegible]CJD[illegible](Wang et al., 2022)[illegible]Aβ[illegible]RAGE[illegible]LRP1[illegible]P-[illegible]P-gp[illegible]RAGE[illegible]LRPI[illegible]P-gp[illegible]Aβ[illegible]GLUT1[illegible](Han and Jiang, 2020)[illegible]MMPs[illegible]ECM[illegible]TJ[illegible]Cav-1[illegible](Zhang et al., 2022)[illegible]

[illegible]ICAM[illegible]1[illegible]VCAM1[illegible]1[illegible]PECAM 1[illegible]CD31[illegible]IL-1β[illegible]TNF-α[illegible]ICAM1[illegible]VCAM1[illegible]12[illegible]ICAM1[illegible]VCAM1[illegible](Yang et al., 2019)[illegible]MS[illegible](Takata et al., 2021)[illegible]



12VCAM1-VCAM1 (cat. no. HS-470 004, 1:750,)-CD31 (cat. no. HS-351 117, 1:1500,)14DAPI

Products Blood-brain-barrier (BBB) in inflammation

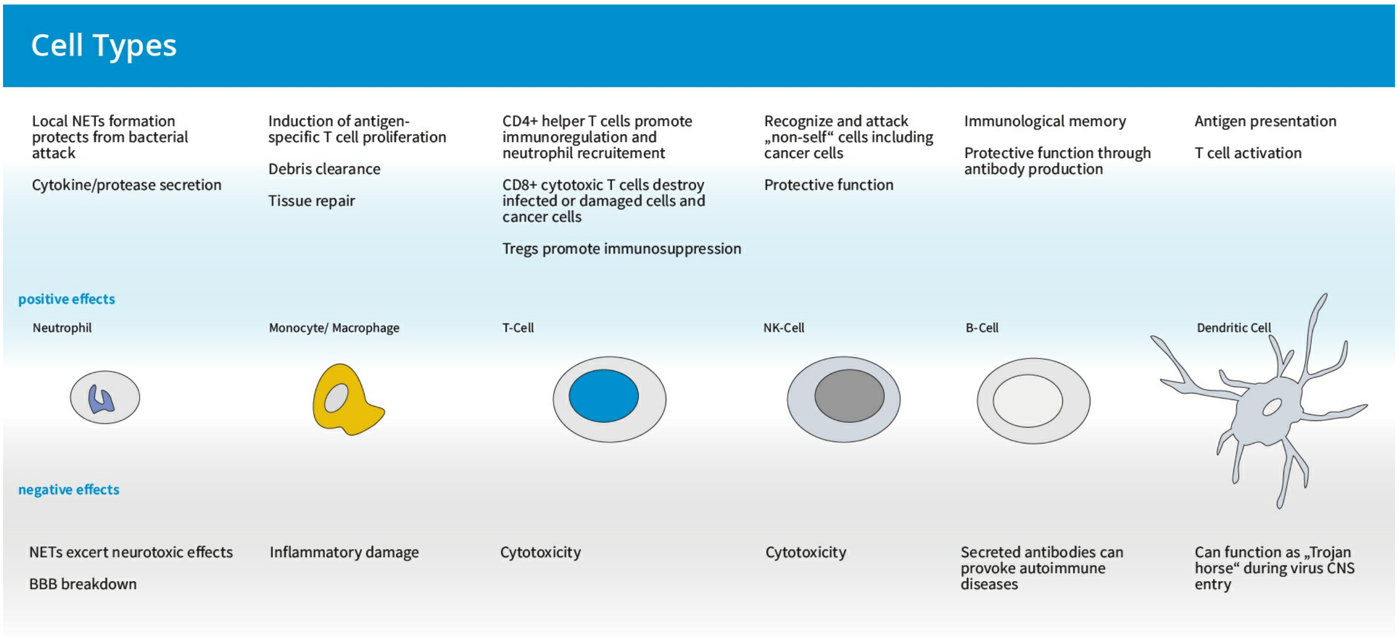
Cat. No.	Product Description	Application	Quantity	Price	Cart
429 004	Aquaporin4, Guinea pig, antiserum	WB IP ICC IHC IHC-P (FFPE)	100 µl	US$375.00	
429 006	Aquaporin4, chicken, affinity	ICC IHC	50 µg	US$385.00	
429 008	Aquaporin4, rabbit, recombinant IgG	IP ICC IHC IHC-P (FFPE) IHC-Fr IHC-G	50 µg	US$420.00	
429 009	Aquaporin4, chicken, recombinant IgY	IP ICC IHC IHC-P (FFPE) IHC-Fr	50 µg	US$420.00	
429 011	Aquaporin4, mouse, IgG	IP ICC IHC IHC-P (FFPE) IHC-Fr	100 µg	US$420.00	
429 011BT	Aquaporin4, mouse, IgG, biotin	ICC IHC IHC-P (FFPE)	100 µg	US$485.00	
429-0P	Aquaporin4, control protein		100 µg	US$110.00	
161 002	Caveolin1, rabbit, antiserum	WB IP	200 µl	US$360.00	
161 003	Caveolin1, rabbit, affinity	WB IP ICC IHC IHC-P (FFPE) IHC-Fr IHC-G	50 µg	US$460.00	
161 011	Caveolin1, mouse, IgG	WB ICC IHC IHC-P (FFPE) IHC-Fr IHC-G	100 µg	US$420.00	
161-0P	Caveolin1, control peptide		100 µg	US$110.00	
351 011	CD31, mouse, IgG	ICC FACS	100 µg	US$420.00	

351 117	CD31, rat, IgG *mouse specific*	WB IHC IHC-P (FFPE) IHC-Fr	100 µg	US$420.00
351 308	CD31, Guinea pig, recombinant IgG *mouse specific*	WB IHC IHC-P (FFPE)	50 µg	US$420.00
HS-351 004	CD31, Guinea pig, antiserum *human specific*	WB ICC IHC IHC-P (FFPE) iDISCO	100 µl	US$355.00

Result count: **27**

[illegible]

[illegible](CSF)[illegible]APCs([illegible])[illegible]T[illegible]T[illegible]T[illegible](Marchetti and Engelhardt, 2020)[illegible]13[illegible]

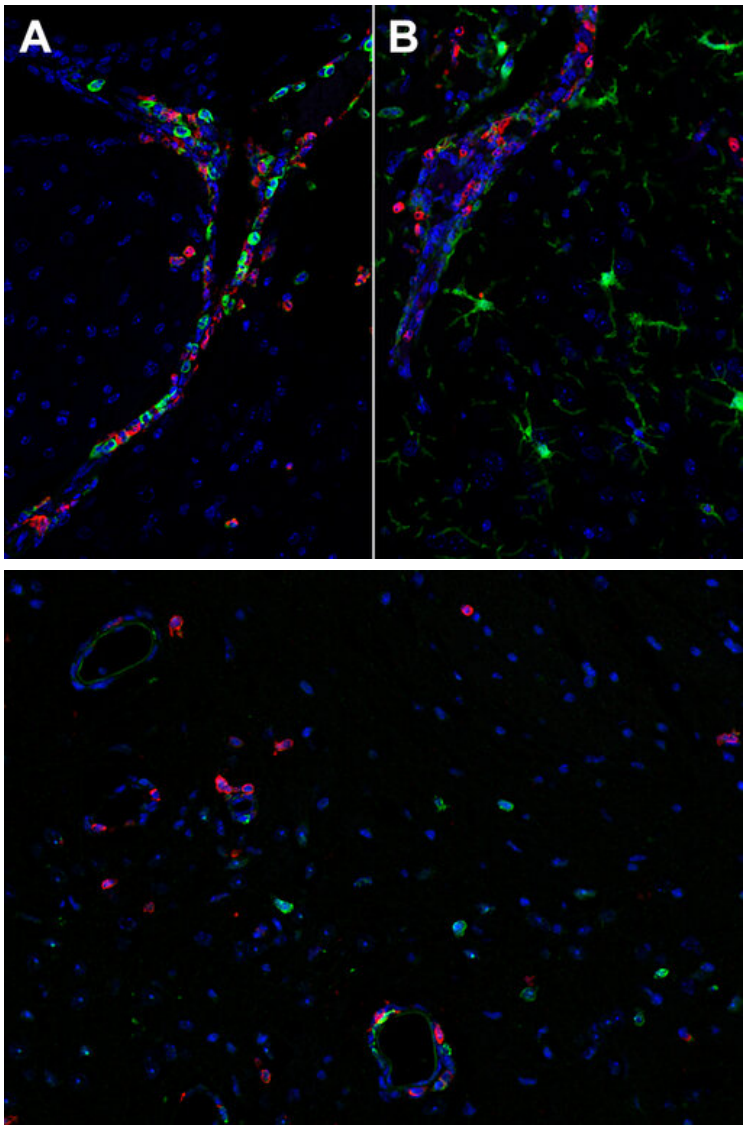


SYSY | HistoSure

[illegible]13[illegible] [illegible]

[illegible] [illegible]DAMPs[illegible]Chil3[illegible]YM-1[illegible]CLP[illegible]14[illegible](Kang et al., 2022)[illegible]MMP-9[illegible](Manda-Handzlik et al., 2019)[illegible]DNA[illegible]NETs[illegible]NET[illegible](Manda-Handzlik et al., 2019)[illegible]

T[illegible] [illegible]T[illegible]CD8+[illegible]CD4+[illegible]T[illegible]15[illegible]T[illegible]APCs[illegible]CD4T[illegible]T[illegible]T[illegible]T[illegible]MS[illegible]PD[illegible]AD[illegible]T[illegible]TRM[illegible](Smolders et al., 2018)[illegible]CD4T[illegible](Pasciuto et al., 2020)[illegible]



14 Chil3YM-1AA-Chil3 (cat. no. HS-442 017, 1:1500,)-CD45 (cat. no. HS-427 008, 1:2000,)B-Chil3 (cat. no. HS-442 017, 1:1500,)-IBA1 (cat. no. HS-234 008, 1:2000,)SARS-CoV2K18-hACE2DAPI

15CD4T-CD4 (cat. no. HS-360 117, 1:200,)CD8T-CD8a (cat. no. HS-361 003, 1:250,)DAPI

MDMsCCR2-MDMsMHCIIMDMsT(Chang et al., 2021)(Spiteri et al., 2022)

CD11c-1%IFNTmoDCsAPCs(Giles et al., 2018)

B□□□□□□□□B□□□□□□□□□CD19□CD20□□□B□□□B□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□B□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□(Jain et al., 2021)□B□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□B□□□□□□□□□□□□MS□□□□□□□□(Ahn et al., 2021)□

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Products infiltrating peripheral immune cells

Cat. No.	Product Description	Application	Quantity	Price	Cart
375-0P	CD11c, control peptide		100 µg	US$110.00	
HS-375 003	CD11c, rabbit, affinity *mouse specific*	WB IHC IHC-P (FFPE)	200 µl	US$375.00	
HS-375 004	CD11c, Guinea pig, antiserum *mouse specific*	WB IHC IHC-P (FFPE)	100 µl	US$355.00	
HS-375 008	CD11c, rabbit, recombinant IgG *mouse specific*	IHC IHC-P (FFPE)	50 µg	US$420.00	
HS-375 013	CD11c, rabbit, affinity	WB IHC IHC-P (FFPE)	50 µg	US$375.00	
HS-375 017	CD11c, rat, IgG *mouse specific*	IHC IHC-P (FFPE) IHC-Fr	100 µg	US$420.00	
HS-439 003	CD19, rabbit, affinity *mouse specific*	WB ICC IHC IHC-P (FFPE)	200 µl	US$375.00	
HS-439 008	CD19, rabbit, recombinant IgG *mouse specific*	IHC IHC-P (FFPE) IHC-Fr	50 µg	US$420.00	
HS-439 017	CD19, rat, IgG *mouse specific*	WB IHC IHC-P (FFPE) IHC-Fr	100 µg	US$420.00	
HS-439 103	CD19, rabbit, affinity *human specific*	WB IHC-P (FFPE)	50 µg	US$375.00	
HS-439 108	CD19, rabbit, recombinant IgG *human specific*	WB IHC-P (FFPE)	50 µg	US$420.00	
HS-439 117	CD19, rat, affinity *human specific*	IHC-P (FFPE)	100 µg	US$420.00	
360 117	CD4, rat, IgG *mouse specific*	WB IHC IHC-P (FFPE) IHC-Fr	200 µl	US$420.00	
HS-360 004	CD4, Guinea pig, antiserum *mouse specific*	WB IHC IHC-P (FFPE)	100 µl	US$355.00	
HS-360 017	CD4, rat, IgG **discontinued, replacement: 360 117** *mouse specific*	IHC IHC-P (FFPE)	200 µl		

Result count: **42**

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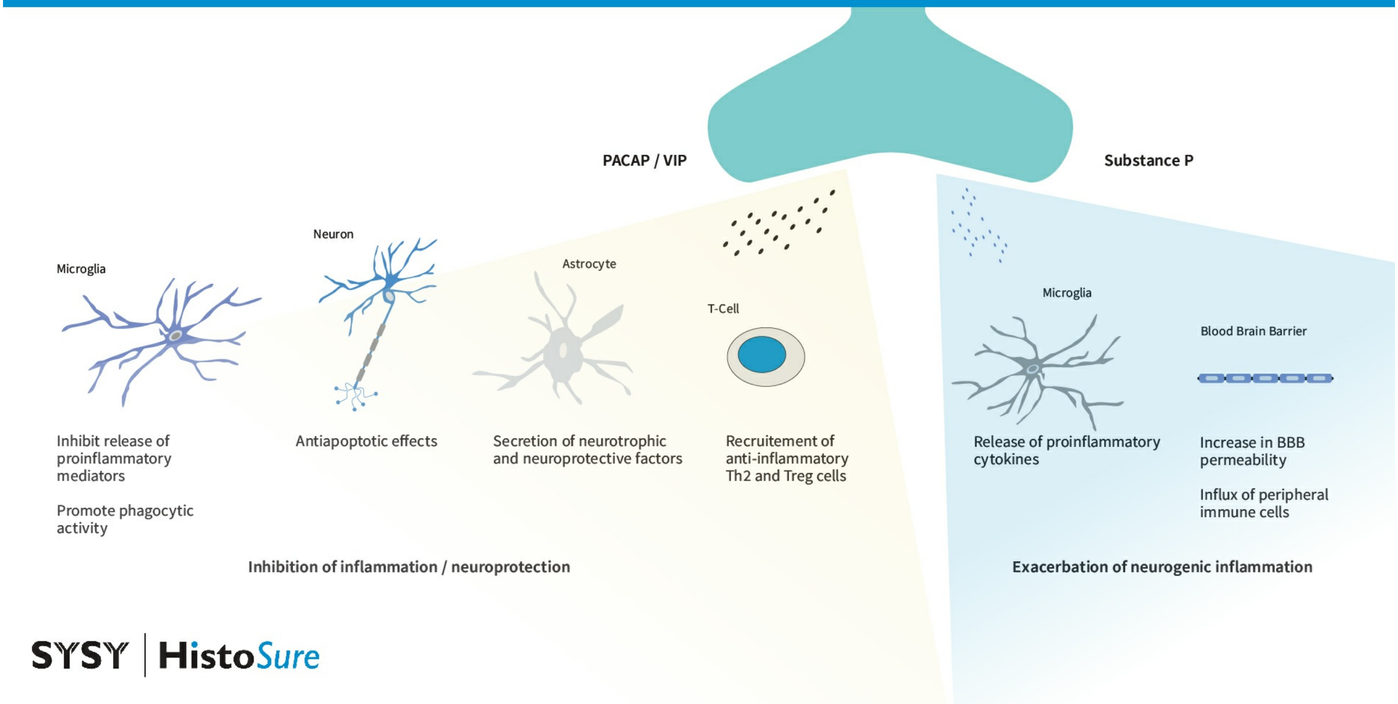
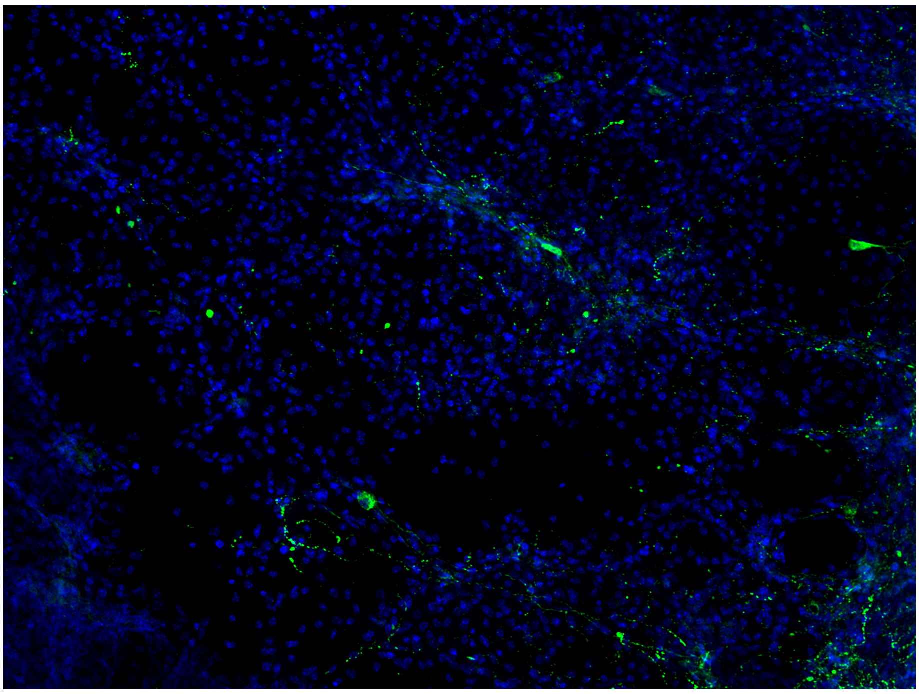
□□□(Yeo et al., 2022)□□16□□□□□□□□□□□□□□□□□□□□□□□□□□□□NRY□□□□□□□□□□□□VIP□□□□□□□□□□□□□□□□□□□□PACAP□□□□□□□□□VIP□□CD4□CD8T□□□□□□VIP□□□VIP□□□□□□□□□□□□□□□□□□□□□□MS□□□□□□□□□□□□□□□□□(Ganea et al., 2015; Martinez et al., 2019)□□VIP□□□PACAP□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□PACA□□□□□□□□□□□□□□□□□□(Figueiredo et al., 2022)□

Immunomodulatory Roles of Neuropeptides in the Brain



16PACAPVIPP

P CRHP(Yeo et al., 2022)
NPYPNPYAβNPYAD(Yeo et al., 2022)(CGRP)P(Carr and Frings, 2019)



17NPYNPY-NPY(cat. no. 394 006, 1:500,)PFAMCAO14DAPI

Products neuropeptides in inflammation

Cat. No.	Product Description	Application	Quantity	Price	Cart
414 004	CGRP, Guinea pig, antiserum	ICC IHC IHC-P (FFPE) iDISCO Clarity	100 µl	US$370.00	
414 017	CGRP, rat, IgG K.O.	IHC IHC-P (FFPE)	100 µg	US$420.00	
394 004	Neuropeptide Y, Guinea pig, antiserum	ICC IHC IHC-P (FFPE)	100 µl	US$370.00	
394 006	Neuropeptide Y, chicken, affinity K.O.	ICC IHC	200 µl	US$385.00	
418 005	Neurotensin, Guinea pig, affinity	IHC IHC-P (FFPE)	50 µg	US$465.00	
459 005	Substance P, Guinea pig, affinity	ICC IHC	50 µg	US$465.00	
443 005	VIP, Guinea pig, affinity	ICC IHC IHC-P (FFPE)	50 µg	US$470.00	

Result count: **7**

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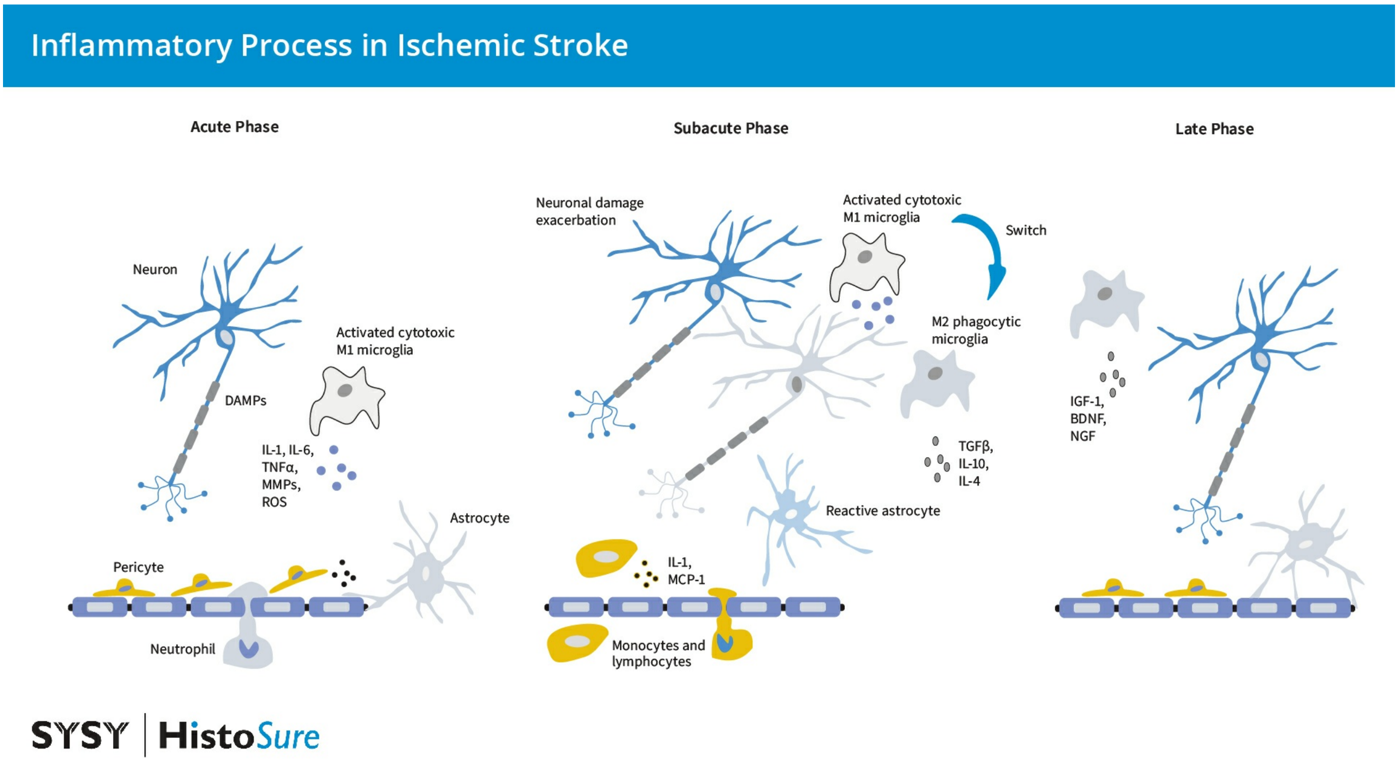

□18□□□□□□□□□□□□□□□□□□□□□Jurcau and Simion., 2022□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□DAMPs□□MMPs□ROS□□□"□□"□□M2□□BBB□□□

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All mentioned products

Cat. No.	Product Description	Application	Quantity	Price	Cart
464 004	Aldolase C, Guinea pig, antiserum	WB ICC IHC	100 µl	US$370.00	

540 004	Annexin A2, Guinea pig, antiserum	ICC IHC-P (FFPE) IHC-Fr	100 µl	US$370.00
429 004	Aquaporin4, Guinea pig, antiserum	WB IP ICC IHC IHC-P (FFPE)	100 µl	US$375.00
429 006	Aquaporin4, chicken, affinity	ICC IHC	50 µg	US$385.00
429 008	Aquaporin4, rabbit, recombinant IgG	IP ICC IHC IHC-P (FFPE) IHC-Fr IHC-G	50 µg	US$420.00
429 009	Aquaporin4, chicken, recombinant IgY	IP ICC IHC IHC-P (FFPE) IHC-Fr	50 µg	US$420.00
429 011	Aquaporin4, mouse, IgG	IP ICC IHC IHC-P (FFPE) IHC-Fr	100 µg	US$420.00
429 011BT	Aquaporin4, mouse, IgG, biotin	ICC IHC IHC-P (FFPE)	100 µg	US$485.00
429-0P	Aquaporin4, control protein		100 µg	US$110.00
HS-500 003	Arg-1, rabbit, affinity *C-terminal*	WB IHC IHC-P (FFPE)	50 µg	US$375.00
HS-500 013	Arg-1, rabbit, affinity *N-terminal*	WB IHC IHC-P (FFPE)	50 µg	US$375.00
HS-500 023	Arg-1, rabbit, affinity	WB IHC-P (FFPE)	50 µg	US$375.00
161 002	Caveolin1, rabbit, antiserum	WB IP	200 µl	US$360.00
161 003	Caveolin1, rabbit, affinity	WB IP ICC IHC IHC-P (FFPE) IHC-Fr IHC-G	50 µg	US$460.00
161 011	Caveolin1, mouse, IgG	WB ICC IHC IHC-P (FFPE) IHC-Fr IHC-G	100 µg	US$420.00

Result count: **183**

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