TO BE USED IN VITRO / FOR RESEARCH ONLY
NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

There are two major classes of heat stable microtubule associated proteins (MAPs): MAP 2, and tau. Both protein classes are involved in the regulation of microtubule polymerization in cells. Four differentially regulated isoforms of MAP 2 have been described so far.

Selected References SYSY Antibodies

Neuronal-targeted TFE7B rescues dysfunction of the autophagy-lysosomal pathway and alleviates ischemic injury in permanent cerebral ischemia.
Autophagy (2018) 8; WB; tested species: rat

Up-regulation of neuropilin light chains is associated with diminished immunoreactivities for MAP2 and tau after ischemic stroke in rodents and in a human case.
Journal of chemical neuroanatomy (2016) 7B: 140-14B. ICC

Combinatorial hedgehog and mitogen signaling promotes the in vitro expansion but not retinal differentiation potential of retinal progenitor cells.

Calderdinni Directly Couples Postsynaptic Calcium Signals to Actin Remodeling in Dendritic Spines.

LYmphoblast-derived Integration-free iPSC line AD-TREM2-1 from a 67-year-old Alzheimer’s disease patient expressing the TREM2 p.R47H variant.
Cell stem research (2018) 29: 60-63. ICC; tested species: human

Re-evaluation of neuronal P2X7 expression using novel mouse models and a P2X7-specific nanobody.
eLife (2018) 7. ICC; tested species: mouse

Genetically Induced Retrograde Amnesia of Associative Memories After Neuroplastin Ablation.


Structure of excitatory synapses and GABAA receptor localization at inhibitory synapses are regulated by neuroplastin-65.

PTEN Loss Increases the Connectivity of Fast Synaptic Motifs and Functional Connectivity in a Developing Hippocampal Network.
Barrows CM, McCabe MP, Chen H, Swann JW, Westton MC

BMP7-induced dendritic growth in sympathetic neurons requires p75(NTR) signaling.
Courter LA, Shaffo FC, Ghogha A, Parrish DJ, Lorentz CU, Habecker BA, Lein PJ

Brain extracellular matrix retains connectivity in neuronal networks.

Quantitative analysis of synaptic vesicle Rab7 uncovers distinct yet overlapping roles for Rab3a and Rab27b in Ca2+-triggered exocytosis.

Cat.No. 188 011; Monoclonal mouse antibody, 100 µg purified IgG (lyophilized)

Data Sheet

<table>
<thead>
<tr>
<th>Reconstitution/ Storage</th>
<th>100 µg purified IgG, lyophilized. Azide was added before lyophilization. For reconstitution add 100 ml H2O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applications</td>
<td>WB: 1 : 1000 (AP staining)</td>
</tr>
<tr>
<td></td>
<td>IP: not tested yet</td>
</tr>
<tr>
<td></td>
<td>ICC: 1 : 100 up to 1 : 500</td>
</tr>
<tr>
<td></td>
<td>IHC: 1: 100 up to 1 : 200</td>
</tr>
<tr>
<td></td>
<td>IHC-P/FFPE: 1 : 500</td>
</tr>
</tbody>
</table>

Clone 198A5

Subtype IgG1 (κ light chain)

Immunogen Recombinant protein corresponding to AA 2 to 314 from human MAP2-4 hu (UniProt Id: P11137-4)

Epitop Epitop: AA 82 to 96 from human MAP2-4 hu (UniProt Id: P11137-4)

Reactivity Reacts with: human (P11137), rat (P15146), mouse (P20357).
No signal: zebrafish.
Other species not tested yet.

Specificity Specific for MAP 2; recognizes all four isoforms.

matching control 188-0P

Recombinant protein corresponding to AA 2 to 314 from human MAP2-4 hu

WB; tested species: rat

ICC; tested species: mouse

IHC; tested species: mouse

IHC; tested species: human

IHC; tested species: mouse

IHC; tested species: mouse

IHC; tested species: mouse

IHC; tested species: mouse

IHC; tested species: human

IHC; tested species: mouse

IHC; tested species: mouse

IHC; tested species: mouse

Syncytin-1/AAV2/AAV9 transduction promotes conditioned place preference after traumatic brain injury in rats.


BMP7-induced dendritic growth in sympathetic neurons requires p75(NTR) signaling.


Quantitative analysis of synaptic vesicle Rab7 uncovers distinct yet overlapping roles for Rab3a and Rab27b in Ca2+-triggered exocytosis.


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