Recombinant protein corresponding to AA 331 to 452 from mouse Synaptopodin

Synaptopodin regulates plasticity of dendritic spines in hippocampal neurons.

Vlachos A, Korkotian E, Schonfeld E, Copanaki E, Deller T, Segal M


Structural Plasticity of Synaptopodin in the Axon Initial Segment during Visual Cortex Development.

Schüller A, Del Turco D, Deller T, Gutzmann A, Schultz C, Engelhardt M

The Journal of Comparative Neurology (2005) 490(2): 133-44. WB, IHC

Lamina-specific distribution of Synaptopodin, an actin-associated molecule essential for the spine apparatus, in identified principal cell dendrites of the mouse hippocampus.

Czarnecki K, Haas CA, Bas Orth C, Deller T, Frotscher M

The Journal of Comparative Neurology (2005) 30(3): 316-25. WB, IHC

Synaptopodin and 4 novel genes identified in primary sensory neurons.


Diabetes (2009) 58(9): 2109-18. WB

Glomerular endothelial cell injury and damage precedes that of podocytes in adriamycin-induced nephropathy.

Sun YB, Qu X, Zhang X, Caruana G, Bertram JF, Li J

PloS one (2013) 8(1): e55027. IHC

Podocytes require the engagement of cell surface heparan sulfate proteoglycans for adhesion to extracellular matrices.


Effect of the monocyte chemoattractant protein-1/CC chemokine receptor 2 system on nephrin expression in streptozotocin-treated mice and human cultured podocytes.


Synaptopodin regulates activity of alpha-actinin in an isoform-specific manner.

Dieni S, Nestel S, Bibe M, Frotscher M, Hellwig S


Proteomic screening of glutamatergic mouse brain synaptosomes isolated by fluorescence activated sorting.


Gomeral endothelial cell injury and damage precedes that of podocytes in adriamycin-induced nephropathy.

Sun YB, Qu X, Zhang X, Caruana G, Bertram JF, Li J

PloS one (2013) 8(1): e55027. IHC

Podocytes require the engagement of cell surface heparan sulfate proteoglycans for adhesion to extracellular matrices.


Effect of the monocyte chemoattractant protein-1/CC chemokine receptor 2 system on nephrin expression in streptozotocin-treated mice and human cultured podocytes.


Diabetes (2009) 58(9): 2109-18. IHC

Synaptopodin is the founding member of a new class of proline-rich actin-associated proteins. Up to now three splice variants of synaptopodin have been identified. In neurons and podocytes the protein is expressed in a differentiation dependent manner.

Synaptopodin deficient mice lack the dendritic spine apparatus and exhibit impaired activity-dependent long-term synaptic plasticity.

**Selected References SYSY Antibodies**

Synaptopodin is regulated by aromatase activity.


Chronic corticosterone exposure alters postsynaptic protein levels of PSD-95, NR1, and synaptopodin in the mouse brain.

Cohen JW, Louvena N, Han LY, Hodes GE, Willson RS, Bennett DA, Lucki I, Arnold SE


Synaptopodin regulates plasticity of dendritic spines in hippocampal neurons.

Vlachos A, Korkotian E, Schonfeld E, Copanaki E, Deller T, Segal M


Structural Plasticity of Synaptopodin in the Axon Initial Segment during Visual Cortex Development.

Schüller A, Del Turco D, Deller T, Gutzmann A, Schultz C, Engelhardt M

The Journal of Comparative Neurology (2005) 490(2): 133-44. WB, IHC

Lamina-specific distribution of Synaptopodin, an actin-associated molecule essential for the spine apparatus, in identified principal cell dendrites of the mouse hippocampus.

Czarnecki K, Haas CA, Bas Orth C, Deller T, Frotscher M

The Journal of Comparative Neurology (2005) 30(3): 316-25. WB, IHC

Synaptopodin and 4 novel genes identified in primary sensory neurons.


Molecular and cellular neurosciences (2005) 30(3): 316-25. WB, IHC

Postnatal development of synaptopodin expression in the rodent hippocampus.

Czarnecki K, Haas CA, Bas Orth C, Deller T, Frotscher M

The Journal of Comparative Neurology (2005) 490(2): 133-44. WB, IHC

Lamina-specific distribution of synaptopodin, an actin-associated molecule essential for the spine apparatus, in identified principal cell dendrites of the mouse hippocampus.

Bas Orth C, Vlachos A, Del Turco D, Burbach GJ, Haas CA, Mundel P, Fong G, Frotscher M, Deller T


Synaptopodin regulates the actin-bundling activity of alpha-actinin in an isoform-specific manner.


Synaptopodin regulates plasticity of dendritic spines in hippocampal neurons.

Vlachos A, Korkotian E, Schonfeld E, Copanaki E, Deller T, Segal M