

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Synaptopodin in direct ELISAs.
Source	Monoclonal Mouse IgG _{2A} Clone # 918842
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Synaptopodin Ser363-Gln490 Accession # Q8N3V7
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Immunohistochemistry Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Synaptopodin is a 929 amino acid, actin associated protein with restricted expression in brain and kidney. First reported in glomerular podocytes, the protein is also found in postsynaptic densities (PSDs) in a subpopulation of telencephalic neurons where it is thought to participate in synaptic plasticity in dendritic spines. Despite its localization in PSDs, it is not homologous to other PSD proteins. Loss of synaptopodin expression has been demonstrated in Alzheimer's patients. In glomeruli, synaptopodin localizes to the cytoplasm of podocyte foot processes.

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