

SYP / Synaptophysin Antibody (clone 4A2)
Mouse Monoclonal Antibody
Catalog # ALS16380**Specification**

SYP / Synaptophysin Antibody (clone 4A2) - Product Information

Application	IF
Primary Accession	P08247
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	34kDa KDa

SYP / Synaptophysin Antibody (clone 4A2) - Additional Information**Gene ID** 6855**Other Names**

Synaptophysin, Major synaptic vesicle protein p38, SYP

Target/Specificity

Human Synaptophysin

Reconstitution & Storage

Store at -20°C. Minimize freezing and thawing.

Precautions

SYP / Synaptophysin Antibody (clone 4A2) is for research use only and not for use in diagnostic or therapeutic procedures.

SYP / Synaptophysin Antibody (clone 4A2) - Protein Information**Name** SYP**Function**

Possibly involved in structural functions as organizing other membrane components or in targeting the vesicles to the plasma membrane. Involved in the regulation of short-term and long-term synaptic plasticity (By similarity).

Cellular Location

Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane; Multi-pass membrane protein. Synapse, synaptosome

Tissue Location

Expressed in the brain, with expression in the hippocampus, the neuropil in the dentate gyrus, where expression is higher in the outer half of the molecular layer than in the inner half, and in the neuropil of CA4 and CA3 (PubMed:8838578). Expressed in the putamen (at protein level) (PubMed:17296554)

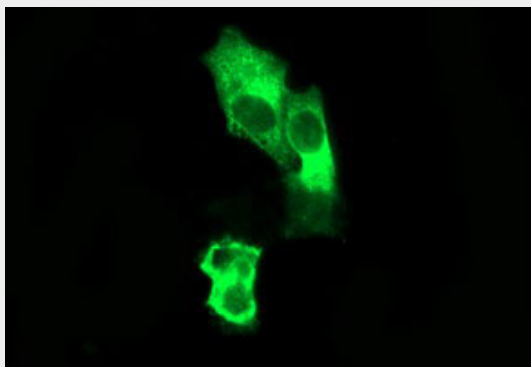
Volume
50 µl

SYP / Synaptophysin Antibody (clone 4A2) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SYP / Synaptophysin Antibody (clone 4A2) - Images



Anti-SYP mouse monoclonal antibody immunofluorescent staining of COS7 cells transiently...

SYP / Synaptophysin Antibody (clone 4A2) - Background

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SYP / Synaptophysin Antibody (clone 4A2) - References

Suedhof T.C.,et al.Nucleic Acids Res. 15:9607-9607(1987).
Oezcelik T.,et al.Am. J. Hum. Genet. 47:551-561(1990).
Fisher S.E.,et al.Genomics 45:340-347(1997).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Ross M.T.,et al.Nature 434:325-337(2005).