

Product Datasheet

Synaptophysin (10C8) Mouse mAb

Catalog No: AB3437

Reactivity: Human, Mouse, Rat

Isotype: Mouse IgG1

Applications: WB, IHC



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Information

UniProt ID: P08247

All Names: MRXSYP; SYP

Form: Liquid

Storage instructions: Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Storage buffer: pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Purity: Affinity-chromatography

Immunogen: A synthesized peptide

Molecular Wt.: 33.8kDa

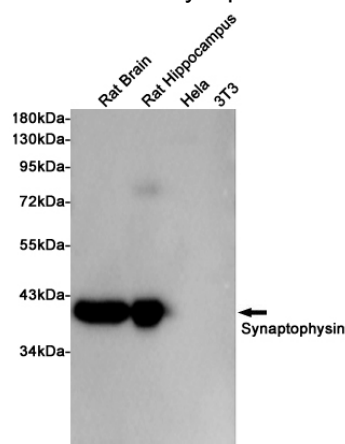
Application

WB: 1/500-1/1000

IHC: 1/50-1/100

Background

Swiss-Prot Acc.P08247.Synaptophysin (p38) is an integral membrane protein of small synaptic vesicles in brain and endocrine cells.Synaptophysin contains four transmembrane domains that form a hexameric channel or gap junction-like pore. Synaptophysin binds to the SNARE protein synaptobrevin/VAMP, which prevents the inclusion of synaptobrevin in the synaptic vesicle fusion complex and creates a pool of synaptobrevin for exocytosis when synapse activity increases. Synaptophysin is also responsible for targeting synaptobrevin 2/VAMP2 to synaptic vesicles, a critical component of the fusion complex.



Western blot detection of Synaptophysin in Rat Brain, Rat Hippocampus, HeLa, 3T3 cell lysates using Synaptophysin (10C8) Mouse mAb (1:1000 diluted). Predicted band size: 33.8kDa. Observed band size: 38kDa.

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