Synaptophysin (7H12) Mouse mAb (IF Formulated)



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Applications:Reactivity:Sensitivity:Source/Isotype:UniProt ID:Entrez-Gene Id:IF-FH M REndogenousMouse IgG1#P082476855

Product Usage
InformationApplicationDilutionImmunofluorescence (Frozen)1:200

Storage Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.

Specificity / Sensitivity Synaptophysin (7H12) Mouse mAb (IF Formulated) recognizes endogenous levels of total synaptophysin

protein.

Source / Purification Monoclonal antibody is produced by immunizing animals with a recombinant protein specific to the carboxy

terminus of human synaptophysin protein.

Background Synaptophysin (SYP) is a neuronal synaptic vesicle glycoprotein that is expressed in neuroendocrine cells and neoplasms (1). Synaptophysin contains four transmembrane domains that form a hexameric channel

or gap junction-like pore (2). 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 (3). Synaptophysin is also responsible for targeting synaptobrevin 2/VAMP2 to synaptic vesicles, a critical component of the fusion complex (4).

Background References

- 1. Wiedenmann, B. et al. (1986) Proc Natl Acad Sci USA 83, 3500-4.
- 2. Valtorta, F. et al. (2004) Bioessays 26, 445-53.
- 3. Arthur, C.P. and Stowell, M.H. (2007) Structure 15, 707-14.
- 4. Bonanomi, D. et al. (2007) Biochem J 404, 525-34.

Species Reactivity Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key IF-F: Immunofluorescence (Frozen)

Cross-Reactivity Key H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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