

Anti-SYP/Synaptophysin Antibody Picoband® (monoclonal, 3G12) Biotin Conjugated

Catalog Number: M05049-3-Biotin

About SYP

SYP (Synaptophysin) is located on the short arm of X chromosome (Xp11.23-p11.22). The protein is a synaptic vesicle glycoprotein with four transmembrane domains weighing 38kDa. It is present in neuroendocrine cells and in virtually all neurons in the brain and spinal cord that participate in synaptic transmission. It acts as a marker for neuroendocrine tumors, and its ubiquity at the synapse has led to the use of synaptophysin immunostaining for quantification of synapses. Also, the protein binds cholesterol and is thought to direct targeting of vesicle-associated membrane protein 2 (synaptobrevin) to intracellular compartments. Mutations in this gene are associated with X-linked mental retardation (XLMR).

Overview

Product Name	Anti-SYP/Synaptophysin Antibody Picoband® (monoclonal, 3G12) Biotin Conjugated
Reactive Species	Mouse, Rat
Application	WB, IHC, ELISA
Clonality	Monoclonal 3G12
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.02% Na ₃ N.
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing.
Host	Mouse
Uniprot ID	Human(P08247), Mouse(Q62277), Rat(P07825)

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human Synaptophysin, identical to the related mouse and rat sequences.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Mouse IgG2b
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Biotin

Suggested Dilutions

Western blot, Optimal dilutions should be determined by end users.
Immunohistochemistry (Paraffin-embedded Section), Optimal dilutions should be determined by end users.
ELISA, Optimal dilutions should be determined by end users.

2 Publications Citing This Product

1. PubMed ID: 10.1002/syn.20684, Abnormality of synaptic vesicular associated proteins in cerebral cortex and hippocampus after microwave exposure
2. PubMed ID: 33531914, Lin J,Hao C,Gong Y,Zhang Y,Li Y,Feng Z,Xu X,Huang H,Liao W. Effect of Tetramethylpyrazine on Neuroplasticity after Transient Focal Cerebral Ischemia Reperfusion in Rats. Evid Based Complement Alternat Med. 2021 Jan 18;2021:1587241.doi:10.1155/2021/1587241

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