

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

Catalog Number: M05049-3-APC

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) APC Conjugated
Reactive Species	Mouse, Rat
Application	Flow Cytometry
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. Protect from light.
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	APC Excitation Wavelength: 633-647 nm

	Emission Wavelength: 660 nm
Suggested Dilutions	Flow Cytometry, 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

Visit bosterbio.com/anti-synaptophys-picoband-trade-antibody-monoclonal-m05049-3-boster.html to see all 2 publications.

Submit a product review to Biocompare.com

Submit a review of this product to Biocompare.com to receive a \$20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.



Anti-SYP/Synaptophysin Antibody (monoclonal, 3G12) - APC

For Research Use Only. Not for use in diagnostic procedures.