BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Synaptophysin SYP Rabbit Monoclonal Antibody

Catalog Number: M05049

About SYP

Synaptophysin, also known as the major synaptic vesicle protein p38, is a protein that in humans is encoded by the SYP gene. It is mapped to Xp11.23. This gene encodes an integral membrane protein of small synaptic vesicles in brain and endocrine cells. The protein also 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 an X-linked form of cognitive disability.

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Overview

Product Name	Anti-Synaptophysin SYP Rabbit Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Synaptophysin SYP Rabbit Monoclonal Antibody catalog # M05049. Tested in WB, IHC, ICC/IF, IP, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.
Application	Flow Cytometry, IP, IF, IHC, ICC, WB
Clonality	Monoclonal BIE-19
Formulation	Rabbit IgG in stabilizing components, phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P08247

Technical Details

Immunogen	A synthesized peptide derived from human Synaptophysin

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Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5mg/ml
Purification	Affinity-chromatography
Suggested Dilutions	WB, 1:500-2000 IHC, 1:50-200 ICC/IF, 1:50-200 IP, 1:20 FC, 1:20

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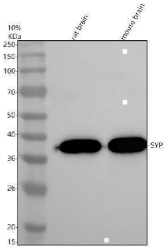
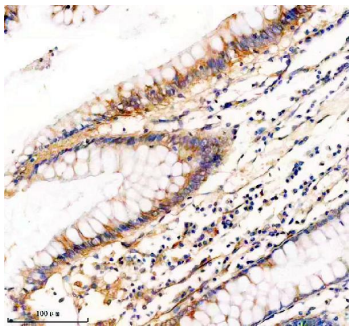
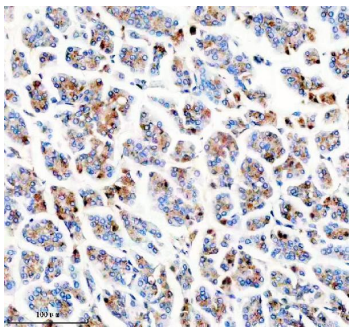
Anti-Synaptophysin SYP Rabbit Monoclonal Antibody (M05049) Images



Western blot analysis of Synaptophysin/SYP using anti-Synaptophysin/SYP antibody (M05049). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: rat brain tissue lysates, Lane 2: mouse brain tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Synaptophysin/SYP antigen affinity purified monoclonal antibody (M05049) at 1:500 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for Synaptophysin/SYP at approximately 38 kDa. The expected band size for Synaptophysin/SYP is at 34 kDa.



IHC analysis of Synaptophysin/SYP using anti-Synaptophysin/SYP antibody (M05049). Synaptophysin/SYP was detected in a paraffin-embedded section of human colon tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-Synaptophysin/SYP Antibody (M05049) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of Synaptophysin/SYP using anti-Synaptophysin/SYP antibody (M05049). Synaptophysin/SYP was detected in a paraffin-embedded section of human pancreas tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-Synaptophysin/SYP Antibody (M05049) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

Immunofluorescent analysis of PC-12 cells, using Synaptophysin Antibody .

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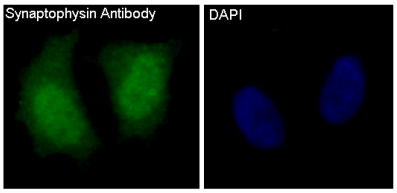

2 Publications Citing This Product

1. 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

2. PubMed ID: 25206583, Liu Y, Liang Z, Liu J, Zou W, Li X, Wang Y, An L. Neural Regen Res. 2013 Oct 15;8(29):2725-33. Doi: 10.3969/J.Issn.1673-5374.2013.29.004. Downregulation Of Caveolin-1 Contributes To The Synaptic Plasticity Deficit In The Hippocampus Of Aged Rats.

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