Product datasheet

Anti-Synaptophysin/SYP Antibody

Catalog Number: *A05049*

BOSTER
antibody and ELISA experts
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Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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Basic Information

Product Name	Anti-Synaptophysin/SYP Antibody
Gene Name	SYP
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, ICC/IF, IHC, IF
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human Synaptophysin/SYP, which shares 91.3% amino acid (aa) sequence identity with both mouse and rat Synaptophysin/SYP.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	38 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 Immunofluorescence (IF) : 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

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

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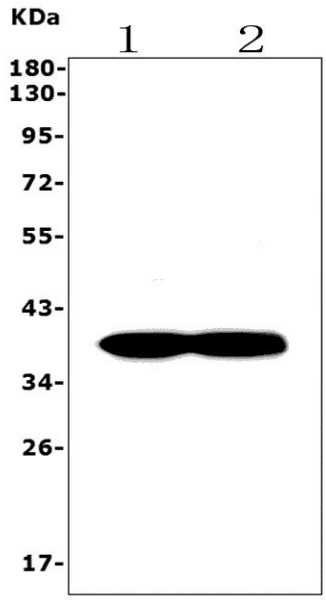
cognitive disability.

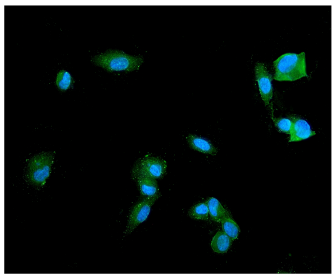
Reference

Anti-Synaptophysin/SYP Antibody被引用在7文献中。

Selected Validation Data



Western blot analysis of Synaptophysin/SYP using anti-Synaptophysin/SYP antibody (A05049). 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 membrane. Then the membrane was incubated with rabbit anti-Synaptophysin/SYP antigen affinity purified polyclonal antibody (A05049) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Synaptophysin/SYP at approximately 38 kDa. The expected band size for Synaptophysin/SYP is at 34 kDa.



ICC/IF analysis of Synaptophysin/SYP using anti-Synaptophysin/SYP antibody (A05049).
Synaptophysin/SYP was detected in an immunocytochemical section of SH-SY5Y cells. The section was incubated with rabbit anti-Synaptophysin/SYP Antibody (A05049) at a dilution of 1:100. Fluoro488 Conjugated Goat Anti-Rabbit IgG (Green) (Catalog # BA1127) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).

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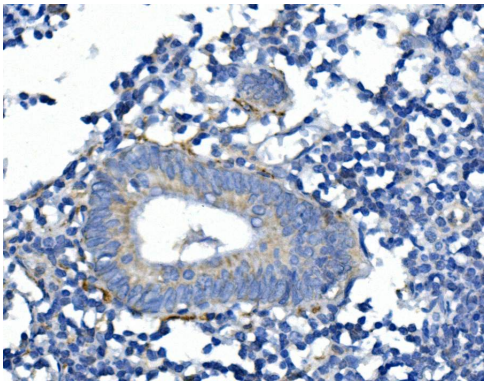
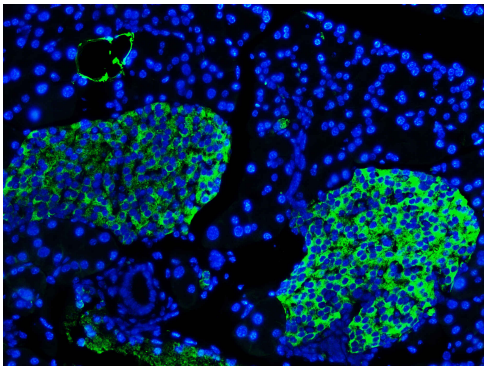


IHC analysis of Synaptophysin/SYP using anti-Synaptophysin/SYP antibody (A05049).
Synaptophysin/SYP was detected in a paraffin-embedded section of human appendicitis tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-Synaptophysin/SYP Antibody (A05049) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.



IF analysis using anti- SYP antibody (A05049). detected in paraffin-embedded section of mouse pancreas tissue. The tissue section were stained using the Fluoro488-conjugated Anti-rabbit IgG Secondary Antibody (green) (Catalog # BA1127) and counterstained with DAPI (blue).