

[Go to Product page](#)

Datasheet for ABIN6990911

anti-Syntaphilin antibody (N-Term)

Overview

Quantity:	0.1 mg
Target:	Syntaphilin (SNPH)
Binding Specificity:	AA 80-130, N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Syntaphilin antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (IF)

Product Details

Immunogen:	Syntaphilin antibody was raised against a 18 amino acid synthetic peptide from near the amino terminus of human Syntaphilin. The immunogen is located within amino acids 80 - 130 of Syntaphilin.
Isotype:	IgG
Purification:	Syntaphilin Antibody is affinity chromatography purified via peptide column.

Target Details

Target:	Syntaphilin (SNPH)
Alternative Name:	Syntaphilin (SNPH Products)
Background:	Syntaphilin Antibody: Syntaphilin was initially identified in a yeast two-hybrid screen with the

Target Details

carboxy terminal region of Syntaxin-1 as bait. Syntaxin-1 is a key component of the synaptic vesicle docking machinery that forms the SNARE complex with synaptobrevin and SNAP-25. Syntaphilin competes with SNAP-25 for binding to syntaxin-1 and inhibits the formation of the SNARE complex, thereby potentially regulating synaptic vesicle exocytosis. Syntaphilin also binds dynamin-1 and inhibits dynamin-dependent endocytosis. Mice lacking syntaphilin show an increased level of mitochondrial motility and a reduced density of axonal mitochondria. This correlates with an enhanced short-term facilitation and significant impairments in motor ability, suggesting syntaphilin plays a major role in presynaptic function. Multiple isoforms are known to exist.

Gene ID: 9751

UniProt: [O15079](#)

Pathways: [Synaptic Vesicle Exocytosis](#)

Application Details

Application Notes: Syntaphilin antibody can be used for detection of Syntaphilin by Western blot at 2 - 4 µg/mL. Despite its predicted molecular weight, Syntaphilin usually migrates at higher molecular weight in SDS-PAGE. Antibody can also be used for immunohistochemistry starting at 5 µg/mL. For immunofluorescence start at 20 µg/mL.

Antibody validated: Western Blot in human samples, Immunohistochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

Buffer: Syntaphilin Antibody is supplied in PBS containing 0.02 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C, 4 °C

Handling

Storage Comment: Syntaphilin antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.