

## Anti-Synaptotagmin-12/SYT12 Antibody Picoband®

Catalog Number: A14373-1

### About SYT12

This gene is a member of the synaptotagmin gene family and encodes a protein similar to other family members that mediate calcium-dependent regulation of membrane trafficking in synaptic transmission. Studies of the orthologous gene in rat have shown that the encoded protein selectively modulates spontaneous synaptic-vesicle exocytosis and may also be involved in regulating calcium independent secretion in nonneuronal cells. Alternative splicing results in multiple transcript variants. The gene has previously been referred to as synaptotagmin XI but has been renamed synaptotagmin XII to be standard with mouse and rat official nomenclature.

### Overview

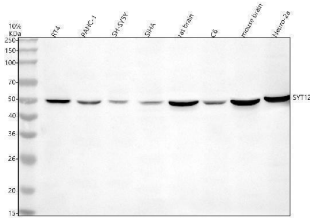
Product Name	Anti-Synaptotagmin-12/SYT12 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Synaptotagmin-12/SYT12 Antibody Picoband® catalog # A14373-1. Tested in WB, ELISA applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	ELISA, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .
Storage Instructions	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	Q8IV01

### Technical Details

Immunogen	E.coli-derived human Synaptotagmin-12/SYT12 recombinant protein (Position: Q63-R410). Human Synaptotagmin-12/SYT12 shares 94.5% and 95.7% amino acid (aa) sequence identity with mouse and rat Synaptotagmin-12/SYT12, respectively.
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Human, Mouse, Rat ELISA, 0.1-0.5 ug/ml



## Anti-Synaptotagmin-12/SYT12 Antibody Picoband® (A14373-1) Images



Western blot analysis of Synaptotagmin-12/SYT12 using anti-Synaptotagmin-12/SYT12 antibody (A14373-1). 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: human RT4 whole cell lysates, Lane 2: human PANC-1 whole cell lysates, Lane 3: human SH-SY5Y whole cell lysates, Lane 4: human SIHA whole cell lysates, Lane 5: rat brain tissue lysates, Lane 6: rat C6 whole cell lysates, Lane 7: mouse brain tissue lysates, Lane 8: mouse Neuro-2a whole cell 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-Synaptotagmin-12/SYT12 antigen affinity purified polyclonal antibody (A14373-1) at 0.5 ug/mL 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 Synaptotagmin-12/SYT12 at approximately 47 kDa. The expected band size for Synaptotagmin-12/SYT12 is at 47 kDa.

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