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antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-SV2C Antibody Picoband®

Catalog Number: A10958-1

About SV2C

Predicted to enable transmembrane transporter activity. Predicted to be involved in several processes, including chemical synaptic transmission; neurotransmitter transport; and regulation of synaptic vesicle exocytosis. Predicted to be located in plasma membrane and synaptic vesicle. Predicted to be active in dopaminergic synapse and synaptic vesicle membrane.

Overview

Product Name	Anti-SV2C Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-SV2C Antibody Picoband® catalog # A10958-1. Tested in WB, Flow Cytometry, 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, Flow Cytometry, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
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	Q496J9

Technical Details

Immunogen	E.coli-derived human SV2C recombinant protein (Position: M1-A579). Human SV2C shares 96.7% and 96.5% amino acid (aa) sequence identity with mouse and rat SV2C, 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 Flow Cytometry (Fixed), 1-3 ug/1x10^6 cells, Human ELISA, 0.1-0.5 ug/ml

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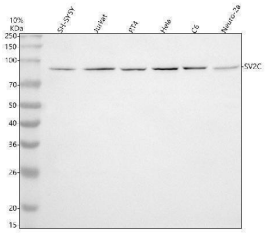
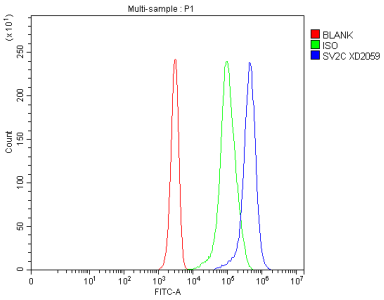
Anti-SV2C Antibody Picoband® (A10958-1) Images



Western blot analysis of SV2C using anti-SV2C antibody (A10958-1). 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 SH-SY5Y whole cell lysates, Lane 2: human Jurkat whole cell lysates, Lane 3: human RT-4 whole cell lysates, Lane 4: human Hela whole cell lysates, Lane 5: rat C6 whole cell lysates, Lane 6: mouse Neoro-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-SV2C antigen affinity purified polyclonal antibody (A10958-1) 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 SV2C at approximately 90 kDa. The expected band size for SV2C is at 82 kDa.



Flow Cytometry analysis of Jurkat cells using anti-SV2C antibody (A10958-1). Overlay histogram showing Jurkat cells stained with A10958-1 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-SV2C Antibody (A10958-1, 1 ug/1x106 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x106 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x106) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

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