

Anti-SRP14 Antibody Picoband®

Catalog Number: A07709-1

About SRP14

Signal-recognition-particle assembly has a crucial role in targeting secretory proteins to the rough endoplasmic reticulum membrane. SRP9 together with SRP14 and the Alu portion of the SRP RNA, constitutes the elongation arrest domain of SRP. The complex of SRP9 and SRP14 is required for SRP RNA binding.

Overview

Product Name	Anti-SRP14 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-SRP14 Antibody Picoband® catalog # A07709-1. Tested in ELISA, Flow Cytometry, IP, WB applications. This antibody reacts with Human. 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, IP, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
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	P37108

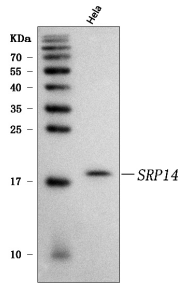
Technical Details

Immunogen	E.coli-derived human SRP14 recombinant protein (Position: M1-D92).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml.
Purification	Immunogen affinity purified.

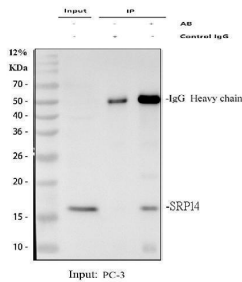
Suggested Dilutions

Western blot, 0.25-0.5 ug/ml, Human
Immunoprecipitation, 0.5-2 ug/ml, Human
Flow Cytometry(Fixed), 1-3 ug/ 1×10^6 cells, Human
ELISA, 0.1-0.5 ug/ml, -

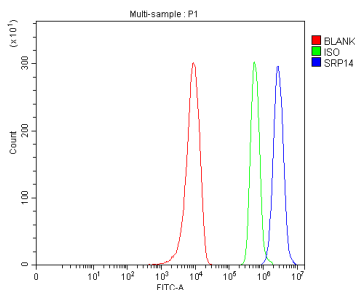
Anti-SRP14 Antibody Picoband® (A07709-1) Images



Western blot analysis of SRP14 using anti-SRP14 antibody (A07709-1). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human HeLa 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-SRP14 antigen affinity purified polyclonal antibody (Catalog # A07709-1) 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 Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for SRP14 at approximately 18 kDa. The expected band size for SRP14 is at 15 kDa.



Immunoprecipitating (IP) SRP14 in PC-3 whole cell lysate. Western blot analysis of SRP14 using anti-SRP14 antibody (A07709-1); Lane 1: PC-3 whole cell lysates (30ug); Lane 2: Rabbit control IgG instead of anti-SRP14 antibody in PC-3 whole cell lysate; Lane 3: anti-SRP14 antibody (2ug) + PC-3 whole cell lysate (500ug). After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-SRP14 antigen affinity purified polyclonal antibody (A07709-1) at a dilution of 0.5 ug/mL and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1196-200). A specific band was detected for SRP14 at approximately 18 kDa. The expected band size for SRP14 is at 15 kDa.



Flow Cytometry analysis of 293T cells using anti-SRP14 antibody (A07709-1). Overlay histogram showing 293T cells stained with A07709-1 (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-SRP14 Antibody (A07709-1, 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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Anti-SRP14 Antibody

For Research Use Only. Not for use in diagnostic procedures.