

Rabbit anti-Human SRP14 Polyclonal Antibody | anti-SRP14 antibody

Anti-SRP14 Antibody Picoband

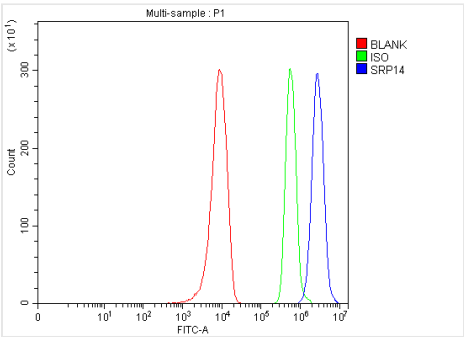
CATALOG # AAA127470	HOST Rabbit	REACTIVITY Human	APPLICATIONS Western Blot, Flow Cytometry, Functional Assay, ELISA
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PRODUCT SYNONYMS

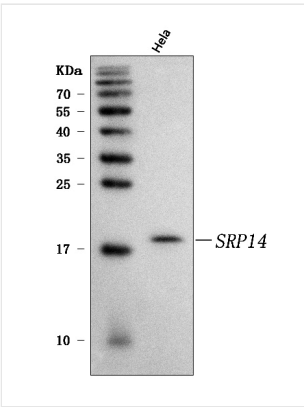
SRP14; Polyclonal Antibody; Anti-SRP14 Antibody Picoband; Chromaffin granule amine transporter; hook microtubule tethering protein 3; Protein Hook homolog 3; h-hook3; Hhk3; HOOK3; anti-SRP14 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Highly Expressed in chromaffin cells of the adrenal medulla (at protein level). Detected in peripheral sympathetic ganglia (at protein level). Found in some paracrine cells in stomach and duodenum (at protein level).
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-SRP14 antibody	WB (Western Blot), FCM/FACS (Flow Cytometry), ELISA
Immunogen	E coli-derived human SRP14 recombinant protein (Position: M1-D92).
Subcellular Localization	Cytoskeleton. Golgi apparatus.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Probably serves as a target for the spiC protein from Salmonella typhimurium, which inactivates it, leading to a strong alteration in cellular trafficking. Component of the FTS/Hook/FHIP complex (FHF complex). The FHF complex may function to promote vesicle trafficking and/or fusion via the homotypic vesicular protein sorting complex (the HOPS complex). May regulate clearance of endocytosed receptors such as MSR1. Participates in defining the architecture and localization of the Golgi complex. Acts as an adapter protein linking the dynein motor complex to various cargos and converts dynein from a non-processive to a highly processive motor in the presence of dynactin. Facilitates the interaction between dynein and dynactin and activates dynein processivity (the ability to move along a microtubule for a long distance without falling off the track).
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)
Figure 2. Flow Cytometry analysis of 293T cells using anti-SRP14 antibody (AAA127470). Overlay histogram showing 293T cells stained with AAA127470 (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 (AAA127470, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



WB (Western Blot)
Figure 1. Western blot analysis of SRP14 using anti-SRP14 antibody (AAA127470). 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 (#AAA127470) at 0.5ug/mL overnight at 4 degree 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 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.

ADDITIONAL INFORMATION

Related Product Information for anti-SRP14 antibody	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.
Product Categories/Family for anti-SRP14 antibody	Primary Antibodies; Golgi Proteins; Protein Trafficking; Signal Transduction; Vesicle Transport
References	1. Chang, D. Y., Nelson, B., Bilyeu, T., Hsu, K., Darlington, G. J., Maraia, R. J. A human Alu RNA-binding protein whose expression is associated with accumulation of small cytoplasmic Alu RNA. Molec. Cell. Biol. 14: 3949-3959, 1994. 2. Halic, M., Becker, T., Pool, M. R., Spahn, C. M. T., Grassucci, R. A., Frank, J., Beckmann, R. Structure of the signal recognition particle interacting with the elongation-arrested ribosome. Nature 427: 808-814, 2004.3. Larsen, N., Samuelsson, T., Swieb, C. The Signal Recognition Particle Database (SRPDB). Nucleic Acids Res. 26: 177-178, 1998.

NCBI AND UNIPROT INFORMATION

NCBI GI #	116242801
NCBI GeneID	6727
UniProt Accession #	P37108; Q6B0K5; Q96Q14; B5BUF5
Molecular Weight	136
NCBI Official Full Name	Signal recognition particle 14 kDa protein
NCBI Official Synonym Full Names	signal recognition particle 14kDa (homologous Alu RNA binding protein)
NCBI Official Symbol	SRP14
NCBI Official Synonym Symbols	ALURBP
NCBI Protein Information	signal recognition particle 14 kDa protein; 18 kDa Alu RNA-binding protein
UniProt Protein Name	Signal recognition particle 14 kDa protein

UniProt Gene Name	SRP14
UniProt Synonym Gene Names	SRP14
UniProt Entry Name	SRP14_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/srp14-antibody-western-blot-flow-cytometry-elisa/127470>