

Rabbit SRPRA Polyclonal Antibody | anti-SRPRA antibody

Anti-SRPRA Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19972	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

SRPRA; Polyclonal Antibody; Anti-SRPRA Antibody Picoband; translocase of inner mitochondrial membrane 17A; Mitochondrial import inner membrane translocase subunit Tim17-A; Inner membrane preprotein translocase Tim17a; TIMM17A; MIMT17; TIM17; TIM17A; TIMM17; anti-SRPRA antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
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-SRPRA antibody	WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), ELISA
Application Notes	WB: 0.25-0.5ug/ml, Human, Mouse, Rat IHC(Paraffin-embedded Section): 2-5ug/ml, Human ICC/IF: 5ug/ml, Human IF: 5ug/ml, Human FC/FACS (Fixed): 1-3ug/1x10 ⁶ cells, Human ELISA: 0.1-0.5ug/ml
Immunogen	E coli-derived human SRPRA recombinant protein (Position: R346-A638).
Subcellular Localization	Mitochondrion inner membrane, Multi-pass membrane protein
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	Essential component of the TIM23 complex, a complex that mediates the translocation of transit peptide-containing proteins across the mitochondrial inner membrane.
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 (Flow Cytometry)

Figure 6. Flow Cytometry analysis of HCT116 cells using anti-SRPRA antibody (AAA19972). Overlay histogram showing HCT116 cells stained with AAA19972 (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-SRPRA Antibody (AAA19972, 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.



IF (Immunofluorescence)

Figure 4. IF analysis of SRPRA using anti-SRPRA antibody (AAA19972). SRPRA was detected in an immunocytochemical section of U2OS cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-SRPRA Antibody (AAA19972) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-SRPRA Antibody (AAA19972) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Lane 2: human 293T whole cell lysates, Lane 3: human HEL whole cell lysates, Lane 4: rat liver tissue lysates, Lane 5: mouse liver tissue 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-SRPRA antigen affinity purified polyclonal antibody (#AAA19972) 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 SRPRA at approximately 70 kDa. The expected band size for SRPRA is at 70 kDa.



IF (Immunofluorescence)

Figure 5. IF analysis of SRPRA using anti-SRPRA antibody (AAA19972). SRPRA was detected in a paraffin-embedded section of human placenta tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5ug/mL rabbit anti-SRPRA Antibody (AAA19972) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

ADDITIONAL INFORMATION

Related Product Information for anti-SRPRA 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-SRPRA antibody	Primary Antibodies; Cancer; Metabolism; Mitochondrial Metabolism; Organelle Proteins; Pathways and Processes; Protein Trafficking; Signal Transduction; Tumor Biomarkers
References	1. Hortsch, M., Labeit, S., Meyer, D. I. Complete cDNA sequence coding for human docking protein. Nucleic Acids Res. 16: 361-362, 1988. 2. Janin, N., Delattre, O., Lipinski, M. PCR-assisted localization of the human SRPR gene. Hum. Genet. 88: 583-585, 1992. 3. Pool, M. R., Stumm, J., Fulga, T. A., Sinning, I., Dobberstein, B. Distinct modes of signal recognition particle interaction with the ribosome. Science 297: 1345-1348, 2002.

NCBI AND UNIPROT INFORMATION

NCBI GI #	295424842
NCBI GeneID	6734
NCBI Accession #	NP_001171313

NCBI GenBank Nucleotide #	NM_001177842
UniProt Accession #	P08240 ; Q9BVJ4 ; A6NIB3 ; B2R5Z8 ; B4E0H3 ; E9PJS4
Molecular Weight	66,559 Da
NCBI Official Full Name	signal recognition particle receptor subunit alpha isoform 2
NCBI Official Synonym Full Names	signal recognition particle receptor (docking protein)
NCBI Official Symbol	SRPR
NCBI Official Synonym Symbols	DP; Sralpha
NCBI Protein Information	signal recognition particle receptor subunit alpha; DP-alpha; SR-alpha; SRP-alpha; docking protein alpha
UniProt Protein Name	Signal recognition particle receptor subunit alpha
UniProt Gene Name	SRPR
UniProt Synonym Gene Names	SR-alpha; DP-alpha
UniProt Entry Name	SRPR_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/srpra-antibody-western-blot-immunohistochemistry-immunocytochemistry-immunofluorescence-flow-cytometry-elisa/19972>