

Rabbit Serine racemase/SRR Polyclonal Antibody | anti-SRR antibody

Anti-Serine racemase/SRR Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127133	Rabbit	Human, Monkey	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

Serine racemase/SRR; Polyclonal Antibody; Anti-Serine racemase/SRR Antibody Picoband; dermatopontin; Dermato pontin; Tyrosine-rich acidic matrix protein; TRAMP; DPT; anti-SRR antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Monkey
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed in fibroblasts, heart, skeletal muscle, brain and pancreas. Expressed at an intermediate level in lung and kidney, and at a low level in liver and placenta. Expressed at a lower level in fibroblasts from hypertrophic scar lesional skin and in fibroblasts from patients with systemic sclerosis than in normal skin fibroblasts.
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-SRR antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human Serine racemase/SRR recombinant protein (Position: A3-E283).
Subcellular Localization	Secreted, extracellular space, extracellular matrix
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	Seems to mediate adhesion by cell surface integrin binding. May serve as a communication link between the dermal fibroblast cell surface and its extracellular matrix environment. Enhances TGFβ1 activity. Inhibits cell proliferation. Accelerates collagen fibril formation, and stabilizes collagen fibrils against low-temperature dissociation (By similarity).
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 U87 cells using anti-Serine racemase/SRR antibody (AAA127133).Overlay histogram showing U87 cells stained with AAA127133 (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-Serine racemase/SRR Antibody (AAA127133, 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 Serine racemase/SRR using anti-Serine racemase/SRR antibody (AAA127133).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 293T whole cell lysates,Lane 2: monkey COS-7 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-Serine racemase/SRR antigen affinity purified polyclonal antibody (#AAA127133) 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 Serine racemase/SRR at approximately 37 kDa. The expected band size for Serine racemase/SRR is at 37 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-SRR 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-SRR antibody	Primary Antibodies; Biochemicals; Chemical Type; Signal Transduction
References	1. De Miranda, J., Santoro, A., Engelder, S., Wolosker, H. Human serine racemase: molecular cloning, genomic organization and functional analysis. Gene 256: 183-188, 2000. 2. Henneberger, C., Papouin, T., Oliet, S. H. R., Rusakov, D. A. Long-term potentiation depends on release of D-serine from astrocytes. Nature 463: 232-236, 2010. 3. Labrie, V., Fukumura, R., Rastogi, A., Fick, L. J., Wang, W., Boutros, P. C., Kennedy, J. L., Semeralul, M. O., Lee, F. H., Baker, G. B., Belsham, D. D., Barger, S. W., Gondo, Y., Wong, A. H. C., Roder, J. C. Serine racemase is associated with schizophrenia susceptibility in humans and in a mouse model. Hum. Molec. Genet. 18: 3227-3243, 2009.

NCBI AND UNIPROT INFORMATION

NCBI GI #	11345492
NCBI GeneID	63826
NCBI Accession #	NP_068766.1
NCBI GenBank Nucleotide #	NM_021947.2
UniProt Accession #	Q9GZT4; Q6IA55; D3DTI5
Molecular Weight	36,566 Da
NCBI Official Full Name	serine racemase isoform a
NCBI Official Synonym Full Names	serine racemase
NCBI Official Symbol	SRR
NCBI Official Synonym Symbols	ILV1; ISO1
NCBI Protein Information	serine racemase; D-serine ammonia-lyase; D-serine dehydratase; L-serine ammonia-lyase; L-serine dehydratase
UniProt Protein Name	Serine racemase
UniProt Gene Name	SRR
UniProt Entry Name	SRR_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/serine-racemase-srr-antibody-flow-cytometry-western-blot-elisa/127133>