

Rabbit SESN1 Polyclonal Antibody | anti-SESN1 antibody

Anti-SESN1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127307	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

SESN1; Polyclonal Antibody; Anti-SESN1 Antibody Picoband; Serine protease HTRA3; dynein light chain Tctex-type 1; Dynein light chain Tctex-type 1; Protein CW-1; T-complex testis-specific protein 1 homolog; DYNLT1; TCTEL1; TCTEX-1; TCTEX1; anti-SESN1 antibody

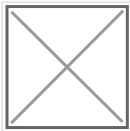
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed in heart, placenta, skeletal muscle kidney, pancreas, spleen, prostate, testis, ovary, ileum and colon.Expressed in lung endothelial and smooth muscle cells (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-SESN1 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human SESN1 recombinant protein (Position: M1-A275).
Subcellular Localization	Golgi apparatus. Cytoplasm. Cytoplasm, cytoskeleton, spindle. Localizes to mitotic spindles
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	Acts as one of several non-catalytic accessory components of the cytoplasmic dynein 1 complex that are thought to be involved in linking dynein to cargos and to adapter proteins that regulate dynein function. Cytoplasmic dynein 1 acts as a motor for the intracellular retrograde motility of vesicles and organelles along microtubules. Binds to transport cargos and is involved in apical cargo transport such as rhodopsin-bearing vesicles in polarized epithelia. May also be a accessory component of axonemal dynein.
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 3. Flow Cytometry analysis of 293T cells using anti-SES1 antibody (AAA127307).Overlay histogram showing 293T cells stained with AAA127307 (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-SES1 Antibody (AAA127307, 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 (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of SES1 using anti-SES1 antibody (AAA127307).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: human K562 whole cell lysates,Lane 3: rat heart tissue lysates,Lane 4: mouse heart 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-SES1 antigen affinity purified polyclonal antibody (#AAA127307) 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 SES1 at approximately 56 kDa. The expected band size for SES1 is at 56,65-75 kDa.



IF (Immunofluorescence)

Figure 2. IF analysis of SES1 using anti-SES1 antibody (AAA127307) and anti-Beta Tubulin antibody (M01857-3).SES1 was detected in immunocytochemical section of U2OS cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-SES1 Antibody (AAA127307) and mouse anti-Beta Tubulin antibody (M01857-3) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) and DyLight488 Conjugated Goat Anti-Mouse IgG (BA1126) were used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

ADDITIONAL INFORMATION

Related Product Information for anti-SES1 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-SES1 antibody	Primary Antibodies; Cytoskeleton; Cytoskeleton/ECM; Dynein; Host-Virus Interaction; Interspecies Interaction; Microbiology; Motor Proteins; Signal Transduction
References	1. Buckbinder, L., Talbott, R., Seizinger, B. R., Kley, N. Gene regulation by temperature-sensitive p53 mutants: identification of p53 response genes. Proc. Nat. Acad. Sci. 91: 10640-10644, 1994. 2. Budanov, A. V., Sablina, A. A., Feinstein, E., Koonin, E. V., Chumakov, P. M. Regeneration of peroxiredoxins by p53-regulated sestrins, homologs of bacterial AhpD. Science 304: 596-600, 2004. 3. Cangelosi, A. L., Puszynska, A. M., Roberts, J. M., Armani, A., Nguyen, T. P., Spinelli, J. B., Kunchok, T., Wang, B., Chan, S. H., Lewis, C. A., Comb, W. C., Bell, G. W., Helman, A., Sabatini, D. M. Zonated leucine sensing by Sestrin-mTORC1 in the liver controls the response to dietary leucine. Science 377: 47-56, 2022.

NCBI AND UNIPROT INFORMATION

NCBI GI #	315709500
NCBI GeneID	27244
NCBI Accession #	NP_001186862.1
NCBI GenBank Nucleotide #	NM_001199933.1
UniProt Accession #	Q9Y6P5; Q2M2B7; Q5T316; Q9NV00; Q9UPD5; Q9Y6P6

Molecular Weight	56,557 Da
NCBI Official Full Name	sestrin-1 isoform 2
NCBI Official Synonym Full Names	sestrin 1
NCBI Official Symbol	SESN1
NCBI Official Synonym Symbols	PA26; SEST1
NCBI Protein Information	sestrin-1; p53 activated gene 26; p53 regulated PA26 nuclear protein
UniProt Protein Name	Sestrin-1
UniProt Gene Name	SESN1
UniProt Synonym Gene Names	PA26; SEST1
UniProt Entry Name	SESN1_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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