

Rabbit SURF1 Polyclonal Antibody | anti-SURF1 antibody

Anti-SURF1 Antibody Picoband

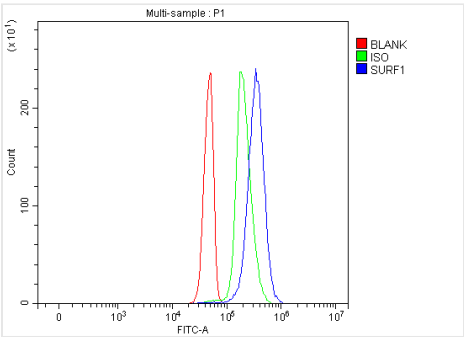
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127193	Rabbit	Human, Monkey, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

SURF1; Polyclonal Antibody; Anti-SURF1 Antibody Picoband; Breast cancer metastasis-suppressor 1; selectin P ligand; p-selectin glycoprotein ligand; Selplg; Psgl1; anti-SURF1 antibody

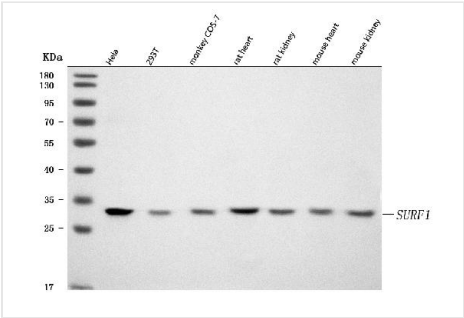
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Monkey, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Highly Expressed in blood, bone marrow, brain, adipose tissue, spleen, and thymus. Also Expressed in heart, kidney, liver, muscle, ovary, and stomach.
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-SURF1 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human SURF1 recombinant protein (Position: S27-R295).
Subcellular Localization	Integral component of membrane
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	A SLe (x)-type proteoglycan, which through high affinity, calcium-dependent interactions with E- and P-selectins, mediates rapid rolling of leukocytes over vascular surfaces during the initial steps in inflammation. Critical for the initial leukocyte capture.
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.



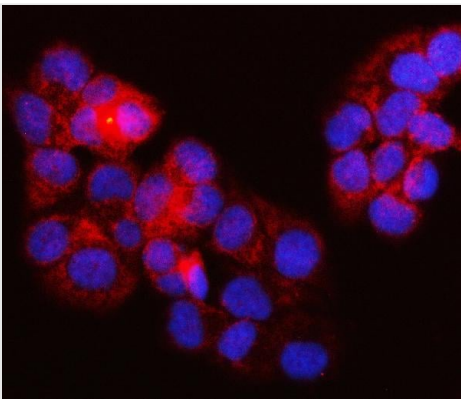
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of Jurkat cells using anti-SURF1 antibody (AAA127193).Overlay histogram showing Jurkat cells stained with AAA127193 (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-SURF1 Antibody (AAA127193, 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 SURF1 using anti-SURF1 antibody (AAA127193).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,Lane 2: human 293T whole cell lysates,Lane 3: monkey COS-7 whole cell lysates,Lane 4: rat heart tissue lysates,Lane 5: rat kidney tissue lysates,Lane 6: mouse heart tissue lysates,Lane 7: mouse kidney 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-SURF1 antigen affinity purified polyclonal antibody (#AAA127193) 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 SURF1 at approximately 33 kDa. The expected band size for SURF1 is at 33 kDa.



IF (Immunofluorescence)

Figure 2. IF analysis of SURF1 using anti-SURF1 antibody (AAA127193).SURF1 was detected in an immunocytochemical section of T47D cells. 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-SURF1 Antibody (AAA127193) 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-SURF1 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-SURF1 antibody	Primary Antibodies; Cardiovascular; Cell Biology; Platelets; Protease Inhibitors; Proteolysis/Ubiquitin; Proteolytic Enzymes

References	1. Agostino, A., Invernizzi, F., Tiveron, C., Fagiolari, G., Prella, A., Lamantea, E., Giavazzi, A., Battaglia, G., Tatangelo, L., Tiranti, V., Zeviani, M. Constitutive knockout of Surf1 is associated with high embryonic lethality, mitochondrial disease and cytochrome c oxidase deficiency in mice. Hum. Molec. Genet. 12: 399-413, 2003. 2. Bohm, M., Pronicka, E., Karczmarewicz, E., Pronicki, M., Piekutowska-Abramczuk, D., Sykut-Cegielska, J., Mierzevska, H., Hansikova, H., Vesela, K., Tesarova, M., Houstkova, H., Houstek, J., Zeman, J. Retrospective, multicentric study of 180 children with cytochrome c oxidase deficiency. Pediat. Res. 59: 21-26, 2006. 3. Colombo, P., Yon, J., Garson, K., Fried, M. Conservation of the organization of five tightly clustered genes over 600 million years of divergent evolution. Proc. Nat. Acad. Sci. 89: 6358-6362, 1992.
------------	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507319
NCBI GeneID	6834
NCBI Accession #	NP_003163.1
NCBI GenBank Nucleotide #	NM_003172.2
UniProt Accession #	Q15526; Q5T8T3; Q5T8T4
Molecular Weight	33,331 Da
NCBI Official Full Name	surfeit locus protein 1
NCBI Official Synonym Full Names	surfeit 1
NCBI Official Symbol	SURF1
NCBI Protein Information	surfeit locus protein 1
UniProt Protein Name	Surfeit locus protein 1
UniProt Gene Name	SURF1
UniProt Synonym Gene Names	SURF-1
UniProt Entry Name	SURF1_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.