

Rabbit anti-Human HS2ST1 Polyclonal Antibody | anti-HS2ST1 antibody

Anti-HS2ST1 Antibody Picoband

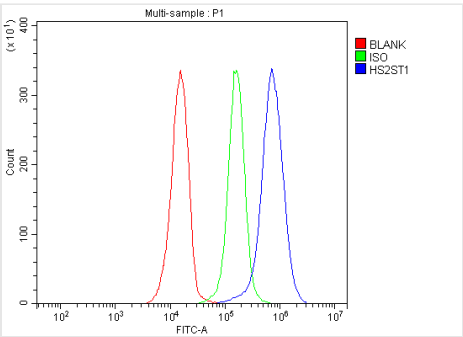
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126598	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

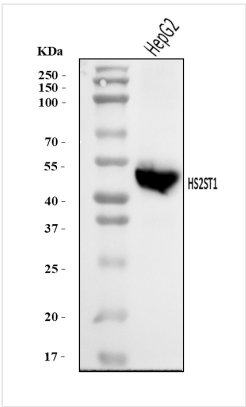
HS2ST1; Polyclonal Antibody; Anti-HS2ST1 Antibody Picoband; anti-HS2ST1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
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 .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-HS2ST1 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human HS2ST1 recombinant protein (Position: E71-N356).
Preparation and Storage	Store 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 JK cells using anti-HS2ST1 antibody (AAA126598).Overlay histogram showing JK cells stained with AAA126598 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-HS2ST1 Antibody (AAA126598, 1 ug/1x10^6 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 (1 ug/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)
Figure 1. Western blot analysis of HS2ST1 using anti-HS2ST1 antibody (AAA126598).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 HepG2 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-HS2ST1 antigen affinity purified polyclonal antibody (#AAA126598) at 0.5 ug/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 HS2ST1 at approximately 42 kDa. The expected band size for HS2ST1 is at 42 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-HS2ST1 antibody	Heparan sulfate 2-O-sulfotransferase 1 is an enzyme that in humans is encoded by the HS2ST1 gene. Heparan sulfate biosynthetic enzymes are key components in generating a myriad of distinct heparan sulfate fine structures that carry out multiple biologic activities. This gene encodes a member of the heparan sulfate biosynthetic enzyme family that transfers sulfate to the 2 position of the iduronic acid residue of heparan sulfate. The disruption of this gene resulted in no kidney formation in knockout embryonic mice, indicating that the absence of this enzyme may interfere with the signaling required for kidney formation. Two alternatively spliced transcript variants that encode different proteins have been found for this gene.
Product Categories/Family for anti-HS2ST1 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	6912420
NCBI GeneID	9653
NCBI Accession #	NP_036394.1
NCBI GenBank Nucleotide #	NM_012262.3
UniProt Accession #	Q7LGA3; O75036; Q32NB5; Q8TAC5; Q9H441; Q9NUJ9; D3DT22
Molecular Weight	41,881 Da
NCBI Official Full Name	heparan sulfate 2-O-sulfotransferase 1 isoform 1
NCBI Official Synonym Full Names	heparan sulfate 2-O-sulfotransferase 1
NCBI Official Symbol	HS2ST1
NCBI Official Synonym Symbols	FLJ11317; KIAA0448; MGC131986; dJ604K5.2
NCBI Protein Information	heparan sulfate 2-O-sulfotransferase 1; 2OST; OTTHUMP00000011908; OTTHUMP00000011909

UniProt Protein Name	Heparan sulfate 2-O-sulfotransferase 1
UniProt Gene Name	HS2ST1
UniProt Synonym Gene Names	HS2ST; KIAA0448
UniProt Entry Name	HS2ST_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/hs2st1-antibody-flow-cytometry-western-blot-elisa/126598>