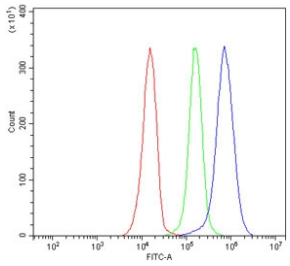
HS2ST1 Antibody / Heparan sulfate 2-O-sulfotransferase (RQ6645)

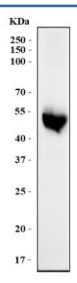
Catalog No.	Formulation	Size
RQ6645	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q7LGA3
Applications	Western Blot : 1-2ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This HS2ST1 antibody is available for research use only.



Flow cytometry testing of human JK-1 cells with HS2ST1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= HS2ST1 antibody.



Western blot testing of human HepG2 cell lysate with HS2ST1 antibody. Predicted molecular weight ~42 kDa.

Description

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.

Application Notes

Optimal dilution of the HS2ST1 antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids E71-N356) was used as the immunogen for the HS2ST1 antibody.

Storage

After reconstitution, the HS2ST1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.