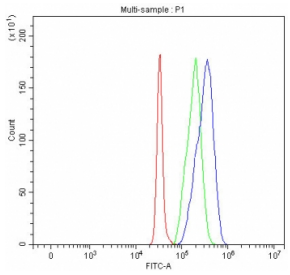
PXYLP1 Antibody / 2-Phosphoxylose phosphatase 1 (RQ8575)

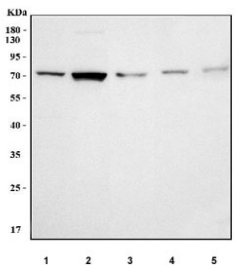
Catalog No.	Formulation	Size
RQ8575	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q8TE99
Applications	Western blot: 0.5-1ug/ml Flow cytometry: 1-3ug/million cells ELISA: 0.1-0.5ug/ml
Limitations	This PXYLP1 antibody is available for research use only.



Flow cytometry testing of fixed and permeabilized human SH-SY5Y cells with PXYLP1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= PXYLP1 antibody.



Western blot testing of 1) human Jurkat, 2) human RT-4, 3) human SiHa, 4) rat liver and 5) mouse liver tissue lysate with PXYLP1 antibody. Predicted molecular weight ~55 kDa but may be observed at higher molecular weights due to glycosylation.

Description

PXYLP1 dephosphorylates the xylose (xyl) residue in the glycosaminoglycan (GAG)-protein linkage region of proteoglycans, which is required for biosynthetic maturation of the linkage region. Responsible for the 2-O-dephosphorylation of xylose in the glycosaminoglycan-protein linkage region of proteoglycans thereby regulating the amount of mature glycosaminoglycan (GAG) chains. Sulfated glycosaminoglycans (GAGs), including heparan sulfate and chondroitin sulfate, are synthesized on the so-called common GAG-protein linkage region (GlcUAbeta1-3Galbeta1-3Galbeta1-4Xylbeta1-O-Ser) of core proteins, which is formed by the stepwise addition of monosaccharide residues by the respective specific glycosyltransferases. Xylose 2-O-dephosphorylation during completion of linkage region formation is a prerequisite for the initiation and efficient elongation of the repeating disaccharide region of GAG chains.

Application Notes

Optimal dilution of the PXYLP1 antibody should be determined by the researcher.

Immunogen

An E.coli-derived human recombinant protein (amino acids K45-D459) was used as the immunogen for the PXYLP1 antibody.

Storage

After reconstitution, the PXYLP1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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