Datasheet for ABIN7319929

CD57 Protein (His tag)

Go to Product page

1 Image

Overview

Quantity:	50 µg
Target:	CD57 (B3GAT1)
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD57 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human B3GAT1 (N-6His)
Sequence:	His25-Ile334
Characteristics:	Recombinant Human Galactosylgalactosylxylosylprotein 3-beta-glucuronosyltransferase 1 is produced by our Mammalian expression system and the target gene encoding His25-Ile334 is expressed with a 6His tag at the N-terminus.
Purity:	>95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	CD57 (B3GAT1)
Alternative Name:	B3GAT1 (B3GAT1 Products)
Background:	Background: B3GAT1 is the key enzyme during the biosynthesis of the carbohydrate epitope HNK-1, which is present on a number of cell adhesion molecules important in

Target Details

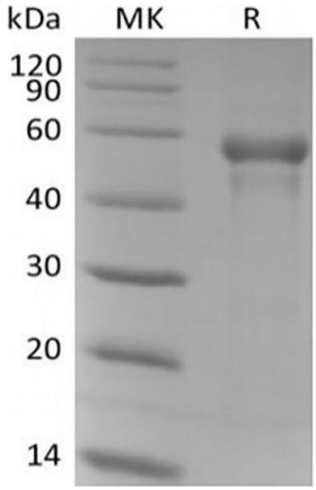
	neurodevelopment. It adds a glucuronic residue to the terminal lactosamine residue (Gal beta 14GlcNAc) of a glycoprotein or glycolipid, which can be further sulfated to become the HNK1 epitope, a unique trisaccharide structure, HSO3-3GlcA beta 1-3Gal beta 1-4GlcNAc. The enzyme activity was found to be enhanced in the presence of sphingomyelin and phosphatidylinositol. The HNK1 carbohydrate epitope is characteristically expressed on a series of cell adhesion molecules in addition to some glycolipids in the extracellular matrix and on the cell surface in the nervous system, where it is involved in cell-cell and cell-substratum interaction and recognition during the development of the nervous system. Like most known glycosyltransferases, B3GAT1 is a type II Golgi-resident transmembrane protein with a short N-terminal cytoplasmic domain and a single pass transmembrane domain followed by an enzymatic domain in the lumen of Golgi apparatus. The enzyme activity was assayed using a phosphatase-coupled method. Synonym: B3GAT1, Galactosylgalactosylxylosylprotein 3-beta-glucuronosyltransferase 1, beta-1,3-glucuronyltransferase 1 (glucuronosyltransferase P), CD57, GlcAT-P, HNK1, NK1, NK-1
Molecular Weight:	36.2 kDa
UniProt:	Q9P2W7
Pathways:	Glycosaminoglycan Metabolic Process

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, pH 8.0.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.



Western Blotting
Image 1.

