

Recombinant Human B3GAT1 Protein, C-His-tagged

Cat. No. B3GAT1-050H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human B3GAT1 Protein with C-His tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	Galactosylgalactosylxylosylprotein 3-beta-glucuronosyltransferase 1 (B3GAT1), also known as beta-1,3-glucuronyltransferase 1 and glucuronosyltransferase P, is a type II membrane protein enzyme encoded by the B3GAT1 gene. This gene is localized on the 11q25 chromosome and is a member of the glucuronyltransferase gene family. B3GAT1 is one of the enzymes involved in the biosynthesis of carbohydrate epitope human natural killer-1 (HNK-1), also known as CD57 and Leu7. B3GAT1 catalyzes the glucuronyl transfer reaction that adds a glucuronic acid to the terminal N-acetyllactosamine (Lac) disaccharide to form the CD57 epitope on a variety of proteins, lipids, and chondroitin sulfate proteoglycans at the cell surface. CD57 is present on a subset of peripheral blood lymphocytes, including NK cells and CD8+ T cells, as well as neural cells and striated muscle. The CD57 epitope may play a role in neural cell adhesion, and characterizes unique maturation states in T and NK cells.
Molecular Mass	~34 kDa
AA Sequence	TLAPLLAVHKDEGSDPRRETTPPGADPREYCTSDRDIVEVVRTEYVYTRPPPWSDTL PTIHVVTPYTSRPVQKAELTRMANTLLHVPNLHLVVEDAPRRTPLTARLLRDTGLN YTHLHVETPRNYKLRGDARDPRIPRGTMQRNLALRWLRETFPRNSSQPGVVYFAD

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DDNTYSLELFEEMRSTRRVSVWPVAFVGGLRYEAPRVNGAGKVVGWKTVPDHPHP
FAIDMAGFAVNLRLILQRSQAYFKLRGVKGGYQESSLLRELVTLNDLEPKAANCTKIL
VWHTRTEKPVLVNEGKKGFTDPSVEI

Purity

Transferred into competent cells and the supernatant was purified by NI column affinity chromatography and the purity is > 85% (by SDS-PAGE).

Notes

For research use only, not for use in diagnostic procedure.

Storage

Store at 4 centigrade short term. Aliquot and store at -20 centigrade long term. Avoid freeze-thaw cycles.

Concentration

≥0.5 mg/mL

Storage Buffer

PBS, 4M Urea, pH7.4

GENE INFORMATION

Gene Name

B3GAT1 beta-1,3-glucuronyltransferase 1 (glucuronosyltransferase P) [Homo sapiens (human)]

Official Symbol

B3GAT1

Synonyms

B3GAT1; beta-1,3-glucuronyltransferase 1 (glucuronosyltransferase P); CD57, CD57 antigen , LEU7; galactosylgalactosylxylosylprotein 3-beta-glucuronosyltransferase 1; GlcAT P; HNK 1; NK 1; glcUAT-P; LEU7 antigen; glucuronosyltransferase P; UDP-GlcUA:glycoprotein beta-1,3-glucuronyltransferase; NK1; CD57; HNK1; LEU7; NK-1; GLCATP; GLCUATP;

Gene ID

27087

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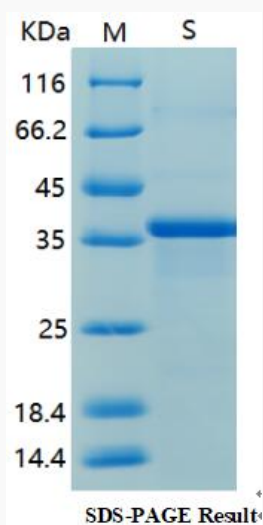
mRNA Refseq [NM_018644](#)

Protein Refseq [NP_061114](#)

MIM [151290](#)

UniProt ID [Q9P2W7](#)

SDS-PAGE



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