

Datasheet for ABIN7319209
B3GAT3 Protein (His tag)



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Overview

Quantity:	50 µg
Target:	B3GAT3
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This B3GAT3 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human B3GAT3 Protein (His Tag)
Sequence:	Glu72-Val335
Characteristics:	Recombinant Human Galactosylgalactosylxylosylprotein 3-beta-glucuronosyltransferase 3 is produced by our E.coli expression system and the target gene encoding Glu72-Val335 is expressed with a 6His tag at the C-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:	B3GAT3
Alternative Name:	B3GAT3 (B3GAT3 Products)
Background:	Background: Galactosylgalactosylxylosylprotein 3-beta-glucuronosyltransferase 3 (B3GAT3) is an enzyme that in humans is encoded by the B3GAT3 gene, belongs to the glycosyltransferase

Target Details

43 family. B3GAT3 is involved in a number of biological processes such as catalyzing the formation of the glycosaminoglycan-protein linkage by way of a glucuronyl transfer reaction in the final step of the biosynthesis of the linkage region of proteoglycans, forming the linkage tetrasaccharide present in heparan sulfate and chondroitin sulfate, gGlycosaminoglycans biosynthesis, transferring a glucuronic acid moiety from the uridine diphosphate-glucuronic acid (UDP-GlcUA) to the common linkage region trisaccharide Gal-beta-1,3-Gal-beta-1,4-Xyl covalently bound to a Ser residue at the glycosaminylglycan attachment site of proteoglycans. It also plays a role in the biosynthesis of I2/HNK-1 carbohydrate epitope on glycoproteins , hows strict specificity for Gal-beta-1,3-Gal-beta-1,4-Xyl, exhibiting negligible incorporation into other galactoside substrates including Galbeta1-3Gal beta1-O-benzyl, Galbeta1-4GlcNAc and Galbeta1-4Glc and stimulates 2-phosphoxylose phosphatase activity of PXYLP1 in presence of uridine diphosphate-glucuronic acid (UDP-GlcUA) during completion of linkage region formation.

Synonym: B3GAT3,Galactosylgalactosylxylosylprotein 3-beta-glucuronosyltransferase 3,Beta-1,3-glucuronyltransferase 3,Glucuronosyltransferase I,GlcAT-I,GlcUAT-I,Gal beta-1,3-Gal-R glucuronyltransferase,

Molecular Weight:	30.4 kDa
UniProt:	O94766
Pathways:	Glycosaminoglycan Metabolic Process

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Frozen, Liquid
Buffer:	Supplied as a 0.2 µm filtered solution of 20 mM Tris,150 mM NaC,2 mM EDTA,20 % Glycerol, pH 8.0.
Storage:	-20 °C
Storage Comment:	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.