Datasheet for ABIN7319810

B4GALT1 Protein (His tag)

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1 Image

Overview

Quantity:	50 µg
Target:	B4GALT1
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This B4GALT1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human B4GALT1 (C-6His)
Sequence:	Gly44-Ser398(Tyr285Leu)
Characteristics:	Recombinant Human Beta-1,4-galactosyltransferase 1 is produced by our Mammalian expression system and the target gene encoding Gly44-Ser398(Tyr285Leu) 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:	B4GALT1
Alternative Name:	B4GALT1 (B4GALT1 Products)
Background:	Background: Beta1,4-Galactosyltransferase-I (B4GALT1), one of seven beta1,4-galactosyltransferases, is an enzyme commonly found in the trans-Golgi complex that adds

Target Details

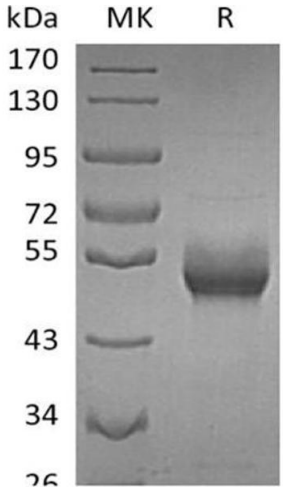
	galactose to oligosaccharides. By sequence similarity, the beta 4GalTs form four groups: beta 4GalT1 and beta 4GalT2, beta 4GalT3 and beta 4GalT4, beta 4GalT5 and beta 4GalT6, and beta 4GalT7. beta 4GalT1 is unique among the seven enzymes because it can be expressed either as membrane associated form or secreted form. The secreted form is restricted to lactating mammary tissues where the enzyme forms a heterodimer with alpha -lactalbumin to catalyze the synthesis of lactose. The Golgi complex form catalyzes the production of lactose in the lactating mammary gland and could also be responsible for the synthesis of complex-type N-linked oligosaccharides in many glycoproteins as well as the carbohydrate moieties of glycolipids. The cell surface form functions as a recognition molecule during a variety of cell to cell and cell to matrix interactions, as those occurring during development and egg fertilization, by binding to specific oligosaccharide ligands on opposing cells or in the extracellular matrix. Defects in beta 4GalT1 are the cause of congenital disorder of glycosylation type 2D (CDG2D) . Synonym: 1,4- galactosyltransferase, polypeptide 1, B4GalT1, B4GAL-T1, beta-1,4-galactosyltransferase 1, Beta-1,4-GalTase 1, beta4Gal-T1, betaGlcNAc beta, CDG2D, GT1, GTB
Molecular Weight:	40.1 kDa
UniProt:	P15291
Pathways:	Glycosaminoglycan Metabolic Process

Application Details

Restrictions:	For Research Use only

Handling

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



Western Blotting

Image 1.

