

For Research Use Only

B4GALT1 Polyclonal antibody

Catalog Number: 55448-1-AP



Basic Information

Catalog Number:

55448-1-AP

Size:

500 ug/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_001497

GeneID (NCBI):

2683

UNIPROT ID:

P15291

Full Name:

UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 1

Calculated MW:

44 kDa

Observed MW:

40-44 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human, mouse

Positive Controls:

WB : HeLa cells, human placenta tissue, mouse small intestine tissue, mouse testis tissue

Background Information

B4GALT1 is one of seven beta-1,4-galactosyltransferase (beta4GalT) genes. They encode type II membrane-bound glycoproteins that appear to have exclusive specificity for the donor substrate UDP-galactose; all transfer galactose in a beta1,4 linkage to similar acceptor sugars: GlcNAc, Glc, and Xyl. Each beta4GalT has a distinct function in the biosynthesis of different glycoconjugates and saccharide structures. As type II membrane proteins, they have an N-terminal hydrophobic signal sequence that directs the protein to the Golgi apparatus and which then remains uncleaved to function as a transmembrane anchor. B4GALT1 is unique among the beta4GalT genes because it encodes an enzyme that participates both in glycoconjugate and lactose biosynthesis. B4GALT1 has two isoforms with molecular weights of 44 kda and 43 kda that are localized to the cell surface and Golgi apparatus, respectively.

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

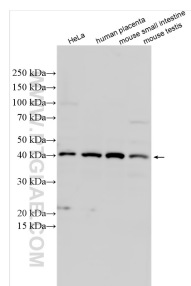
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 55448-1-AP (B4GALT1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.