

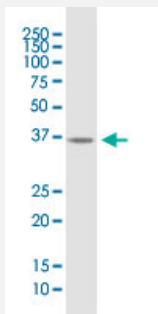
MaxPab®

B4GALT7 purified MaxPab mouse polyclonal antibody (B01P)

Catalog # H00011285-B01P

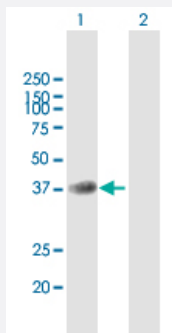
Size 50 ug

Applications



Western Blot (Cell lysate)

B4GALT7 MaxPab polyclonal antibody. Western Blot analysis of B4GALT7 expression in HepG2.



Western Blot (Transfected lysate)

Western Blot analysis of B4GALT7 expression in transfected 293T cell line ([H00011285-T01](#)) by B4GALT7 MaxPab polyclonal antibody.

Lane 1: B4GALT7 transfected lysate(35.97 KDa).

Lane 2: Non-transfected lysate.

Specification

Product Description

Mouse polyclonal antibody raised against a full-length human B4GALT7 protein.

Immunogen

B4GALT7 (NP_009186.1, 1 a.a. ~ 327 a.a) full-length human protein.

Sequence

MFPSRRKAAQLPWEDGRSGLLSGGLPRKCSVFHLFVACLSLGGFFSLLWLQLSCSGDVARAVRG
 QGQETSGPPRACPPPEPPPEHWEEDASWGPHRLAVLVFPRERFEELLVFVPHMRRFLSRKKIRH
 HIYVLNQVDHFRFNRAALINVGFLSSNSTDYAMHDVDLLPLNEELDYGFPEAGPFHVASPELHP
 LYHYKTYVGGILLLSKQHYRLCNGMSNRFWGWGREDDFYYRIKGAGLQLFRPSGITTGYKTFRHL
 HDPAWRKRDQKRIAAQKQEQFKVDREGGLNTVKYHVASRTALSVGGAPCTVLNIMLDCDKTATP
 WCTFS

Host

Mouse

Reactivity	Human
Interspecies Antigen Sequence	Mouse (92); Rat (92)
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

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[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of B4GALT7 expression in transfected 293T cell line ([H00011285-T01](#)) by B4GALT7 MaxPab polyclonal antibody.

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[Protocol Download](#)

Gene Info — B4GALT7

Entrez GeneID	11285
GeneBank Accession#	NM_007255.1
Protein Accession#	NP_009186.1
Gene Name	B4GALT7
Gene Alias	B4GAL-T7, XGALT-1, XGALT1, XGPT1, beta4Gal-T7
Gene Description	xylosylprotein beta 1,4-galactosyltransferase, polypeptide 7 (galactosyltransferase I)
Omim ID	130070 604327
Gene Ontology	Hyperlink

Gene Summary

This gene 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. By sequence similarity, the beta4GalTs form four groups: beta4GalT1 and beta4GalT2, beta4GalT3 and beta4GalT4, beta4GalT5 and beta4GalT6, and beta4GalT7. The enzyme encoded by this gene attaches the first galactose in the common carbohydrate-protein (GlcA-beta1,3-Gal-beta1,3-Gal-beta1,4-Xyl-beta1-O-Ser) linkage found in proteoglycans. Manganese is required as a cofactor. This enzyme differs from the other six beta4GalTs because it lacks the conserved beta4GalT1-beta4GalT6 Cys residues and it is located in cis-Golgi instead of trans-Golgi. Two single-nucleotide mutations were identified from a patient with the progeroid type of Ehlers-Danlos syndrome. [provided by RefSeq]

Other Designations

beta-1,4-galactosyltransferase 7|galactosyltransferase 1 (xylosylprotein 4-beta-galactosyltransferase)|xylosylprotein beta 1,4-galactosyltransferase 7

Pathway

- [Chondroitin sulfate biosynthesis](#)
- [Heparan sulfate biosynthesis](#)
- [Metabolic pathways](#)