

B3GALTL Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP50766

Product Information

Application	WB, IHC
Primary Accession	Q6Y288
Reactivity	Human
Host	Rabbit
Clonality	polyclonal
Calculated MW	56564

Additional Information

Gene ID	145173
Other Names	Beta-1, 3-glucosyltransferase, Beta3Glc-T, 241-, Beta-3-glucosyltransferase-like, B3GALTL, B3GTL
Dilution	WB~~ 1:1000 IHC~~1:50-100
Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.
Storage Conditions	-20°C

Protein Information

Name	B3GLCT (HGNC:20207)
Synonyms	B3GALTL, B3GTL
Function	Beta-1,3-glucosyltransferase involved in one of the two pathways responsible for protein O-linked fucosylation, a unique post- translational modification of cysteine-knotted proteins that regulates various biological processes. This pathway targets proteins with Thrombospondin type-1 (TSP1) repeats (TSR) in the endoplasmic reticulum. It starts with POFUT2, which attaches fucose via an O- glycosidic bond to a conserved serine or threonine residue. B3GLCT extends this modification by transferring a glucose molecule from UDP- glucose to the fucose.
Cellular Location	Endoplasmic reticulum membrane {ECO:0000255 PROSITE-ProRule:PRU10138, ECO:0000269 PubMed:16899492}; Single-pass type II membrane protein
Tissue Location	Widely expressed, with highest levels in testis and uterus.

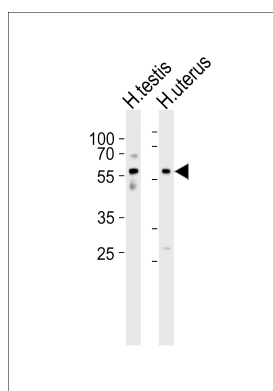
Background

O-fucosyltransferase that transfers glucose toward fucose with a beta-1,3 linkage. Specifically glucosylates O-linked fucosylglycan on TSP type-1 domains of proteins, thereby contributing to elongation of O-fucosylglycan.

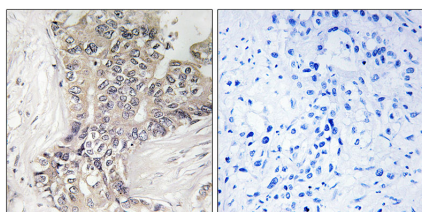
References

Heinonen T.Y.K.,et al.Biochem. Biophys. Res. Commun. 309:166-174(2003).
Sato T.,et al.Glycobiology 16:1194-1206(2006).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Dunham A.,et al.Nature 428:522-528(2004).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.

Images



Western blot analysis of lysates from human testis and uterus tissue lysate(from left to right),using B3GALT1 Antibody(AP50766). AP50766 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody.Lysates at 35ug per lane.



Immunohistochemistry analysis of paraffin-embedded human liver carcinoma tissue using B3GALT1 antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.