



O-FucT-2 Polyclonal Antibody

Catalog No	YP-Ab-04048
Isotype	IgG
Reactivity	Human;Mouse
Applications	IHC;IF;ELISA
Gene Name	POFUT2
Protein Name	GDP-fucose protein O-fucosyltransferase 2
Immunogen	The antiserum was produced against synthesized peptide derived from human POFUT2. AA range:361-410
Specificity	O-FucT-2 Polyclonal Antibody detects endogenous levels of O-FucT-2 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	IHC: 1/100 - 1/300. ELISA: 1/20000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	POFUT2; C21orf80; FUT13; KIAA0958; GDP-fucose protein O-fucosyltransferase 2; Peptide-O-fucosyltransferase 2; O-FucT-2
Observed Band	
Cell Pathway	Endoplasmic reticulum . Golgi apparatus . Mainly located in the endoplasmic reticulum. .
Tissue Specificity	Isoform A is expressed in fetal liver and peripheral blood lymphocytes. Isoform B is expressed in spleen, lung, testis, bone marrow, thymus, pancreas, prostate, fetal brain, fetal liver and fetal kidney. Isoform C is expressed in brain, heart, spleen, liver, lung, stomach, testis, placenta, skin, thymus, pancreas, mammary gland, prostate, fetal brain, fetal liver and fetal heart.
Function	catalytic activity:Transfers an alpha-L-fucosyl residue from GDP-beta-L-fucose to the serine hydroxy group of a protein acceptor.,function:Catalyzes the reaction that attaches fucose through an O-glycosidic linkage to a conserved serine or threonine residue in thrombospondin type 1 repeats.,online information:GlycoGene database,online information:Peptide-O-fucosyltransferase 2,pathway:Protein modification; protein glycosylation.,similarity:Belongs to the glycosyltransferase 68 family.,tissue specificity:Isoform A is expressed in fetal liver and peripheral blood lymphocytes. Isoform B is expressed in spleen, lung, testis, bone marrow, thymus, pancreas, prostate, fetal brain, fetal liver and fetal kidney. Isoform C is expressed in brain, heart, spleen, liver, lung, stomach, testis, placenta, skin, thymus, pancreas, mammary gland, prostate, fetal brain, fetal liver



and fetal heart.,

Background

Fucose is typically found as a terminal modification of branched chain glycoconjugates, but it also exists in direct O-linkage to serine or threonine residues within cystine knot motifs in epidermal growth factor (EGF; MIM 131530)-like repeats or thrombospondin (THBS; see MIM 188060) type-1 repeats. POFUT2 is an O-fucosyltransferase that use THBS type-1 repeats as substrates (Luo et al., 2006 [PubMed 16464857]).[supplied by OMIM, Mar 2008],

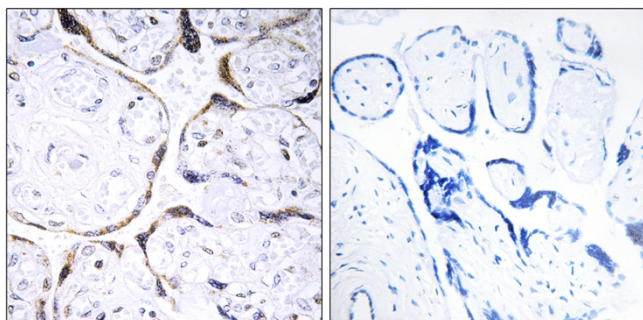
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Immunohistochemistry analysis of paraffin-embedded human placenta tissue, using POFUT2 Antibody. The picture on the right is blocked with the synthesized peptide.