

POFUT2 Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP12857c**Specification**

POFUT2 Antibody (Center) Blocking peptide - Product InformationPrimary Accession [O9Y2G5](#)**POFUT2 Antibody (Center) Blocking peptide - Additional Information****Gene ID** 23275**Other Names**

GDP-fucose protein O-fucosyltransferase 2, Peptide-O-fucosyltransferase 2, O-FucT-2, POFUT2, C21orf80, FUT13, KIAA0958

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

POFUT2 Antibody (Center) Blocking peptide - Protein Information**Name** POFUT2**Synonyms** C21orf80, FUT13, KIAA0958**Function**

Catalyzes the reaction that attaches fucose through an O- glycosidic linkage to a conserved serine or threonine residue in the consensus sequence C1-X-X-S/T-C2 of thrombospondin type I repeats (TSRs) where C1 and C2 are the first and second cysteines of the repeat, respectively (PubMed:22588082).

O-fucosylates members of several protein families including the ADAMTS, the thrombospondin (TSP) and spondin families (Probable) (PubMed:17395588). Required for the proper secretion of ADAMTS family members such as ADAMTSL1 and ADAMTS13 (PubMed:17395588, PubMed:17395589). The O-fucosylation of TSRs is also required for restricting epithelial to mesenchymal transition (EMT), maintaining the correct patterning of mesoderm and localization of the definite endoderm (By similarity).

Cellular Location

Endoplasmic reticulum. Golgi apparatus. Note=Mainly located in the endoplasmic reticulum.

Tissue Location

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

POFUT2 Antibody (Center) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

POFUT2 Antibody (Center) Blocking peptide - Images

POFUT2 Antibody (Center) Blocking peptide - 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 of thrombospondin (THBS; see MIM 188060) type-1 repeats. POFUT2 is an O-fucosyltransferase that uses THBS type-1 repeats as substrates (Luo et al., 2006 [PubMed 16464857]).

POFUT2 Antibody (Center) Blocking peptide - References

Feng, T., et al. Hum. Genet. 128(3):269-280(2010) Luo, Y., et al. J. Biol. Chem. 281(14):9385-9392(2006) Luo, Y., et al. J. Biol. Chem. 281(14):9393-9399(2006) Menzel, O., et al. Genomics 84(2):320-330(2004) Martinez-Duncker, I., et al. Glycobiology 13 (12), 1C-5C (2003) :