

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

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**POFUT2 Antibody (Center) Blocking peptide - Product Information**Primary 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:&lt;a href="http://www.uniprot.org/citations/22588082" target="\_blank"&gt;22588082&lt;/a&gt;).

O-fucosylates members of several protein families including the ADAMTS, the thrombospondin (TSP) and spondin families (Probable) (PubMed:&lt;a href="http://www.uniprot.org/citations/17395588" target="\_blank"&gt;17395588&lt;/a&gt;). Required for the proper secretion of ADAMTS family members such as ADAMTSL1 and ADAMTS13 (PubMed:&lt;a href="http://www.uniprot.org/citations/17395589" target="\_blank"&gt;17395589&lt;/a&gt;, PubMed:&lt;a href="http://www.uniprot.org/citations/17395588" target="\_blank"&gt;17395588&lt;/a&gt;). 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) :