

**POFUT2 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP12857c**

## Specification

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### POFUT2 Antibody (Center) - Product Information

Application	<b>WB, IHC-P,E</b>
Primary Accession	<a href="#">O9Y2G5</a>
Other Accession	<a href="#">NP_598368.2</a>
Reactivity	<b>Human</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit IgG</b>
Calculated MW	<b>49976</b>
Antigen Region	<b>228-257</b>

### POFUT2 Antibody (Center) - Additional Information

**Gene ID** 23275

#### Other Names

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

#### Target/Specificity

This POFUT2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 228-257 amino acids from the Central region of human POFUT2.

#### Dilution

WB~~1:1000  
IHC-P~~1:10~50

#### Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

#### Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### Precautions

POFUT2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

### POFUT2 Antibody (Center) - 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**

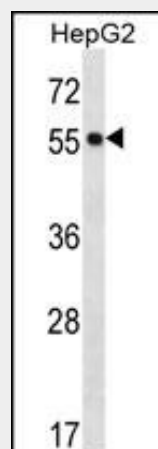
Isoform A is expressed in fetal liver and peripheral blood lymphocytes. Isoform B is expressed in spleen, lung, testis, bone marrow, thymus, pancreas, prostate, fetal brain, fetal liver and fetal kidney. Isoform C is expressed in brain, heart, spleen, liver, lung, stomach, testis, placenta, skin, thymus, pancreas, mammary gland, prostate, fetal brain, fetal liver and fetal heart

#### **POFUT2 Antibody (Center) - Protocols**

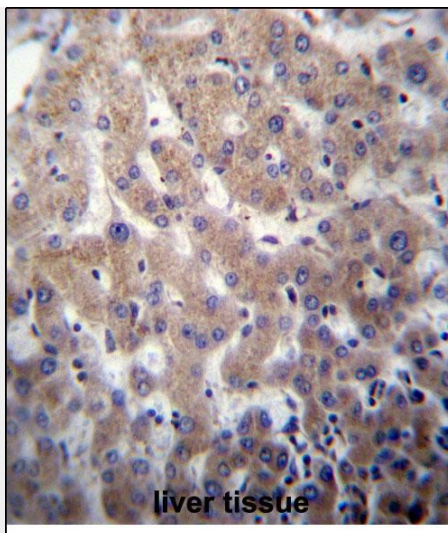
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### **POFUT2 Antibody (Center) - Images**



POFUT2 Antibody (Center) (Cat. #AP12857c) western blot analysis in HepG2 cell line lysates (35ug/lane). This demonstrates the POFUT2 antibody detected the POFUT2 protein (arrow).



POFUT2 Antibody (Center) (Cat. #AP12857c) immunohistochemistry analysis in formalin fixed and paraffin embedded human liver tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of POFUT2 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

#### **POFUT2 Antibody (Center) - 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]).

#### **POFUT2 Antibody (Center) - 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) :