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POFUT1 antibody - middle region
Rabbit Polyclonal Antibody
Catalog # AI14396

Specification

POFUT1 antibody - middle region - Product Information

Application	**WB**
Primary Accession	Q6EV69
Other Accession	NM_015352, NP_056167
Reactivity	**Human, Mouse, Rat, Rabbit, Horse, Bovine, Guinea Pig, Dog**
Predicted	**Mouse, Rabbit, Pig, Chicken, Horse, Bovine, Guinea Pig, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**41kDa KDa**

POFUT1 antibody - middle region - Additional Information

Gene ID 449504

Alias Symbol	**FUT12, KIAA0180, MGC2482, O-FUT, O-Fuc-T, O-FucT-1**

Other Names
GDP-fucose protein O-fucosyltransferase 1, 2.4.1.221, Peptide-O-fucosyltransferase 1, O-FucT-1, POFUT1, FUT12

Format
Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage
Add 50 ul of distilled water. Final anti-POFUT1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions
POFUT1 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

POFUT1 antibody - middle region - Protein Information

Name POFUT1

Synonyms FUT12

Function
Catalyzes the reaction that attaches fucose through an O- glycosidic linkage to a conserved serine or threonine residue found in the consensus sequence C2-X(4,5)-[S/T]-C3 of EGF domains, where C2 and C3 are the second and third conserved cysteines. Specifically uses GDP- fucose as donor

substrate and proper disulfide pairing of the substrate EGF domains is required for fucose transfer. Plays a crucial role in NOTCH signaling. Initial fucosylation of NOTCH by POFUT1 generates a substrate for FRINGE/RFNG, an acetylglucosaminyltransferase that can then extend the fucosylation on the NOTCH EGF repeats. This extended fucosylation is required for optimal ligand binding and canonical NOTCH signaling induced by DLL1 or JAGGED1. Fucosylates AGRN and determines its ability to cluster acetylcholine receptors (AChRs).

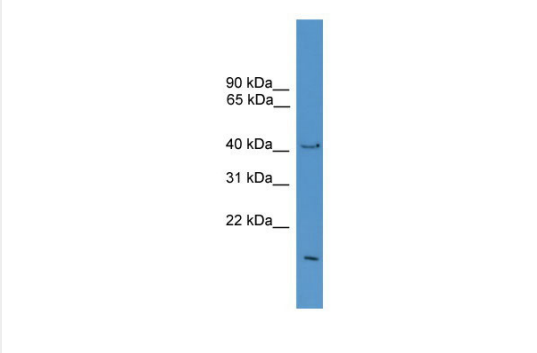
Cellular Location
Endoplasmic reticulum {ECO:0000250|UniProtKB:Q6EV70}

POFUT1 antibody - middle region - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

POFUT1 antibody - middle region - Images



WB Suggested Anti-POFUT1 Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:312500
Positive Control: PANC1 cell lysate
POFUT1 is strongly supported by BioGPS gene expression data to be expressed in Human PANC1 cells

POFUT1 antibody - middle region - References

Martinez-Duncker I.,et al.Glycobiology 13:1C-5C(2003).