10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

POFUT1 antibody - middle region

Rabbit Polyclonal Antibody
Catalog # AI14396

Product Information

Application	WB
Primary Accession	Q6EV69
Other Accession	NM_015352, NP_056167
Reactivity	Human, Mouse, Rat, Rabbit, Zebrafish, Dog, Guinea Pig, Horse, Bovine
Predicted	Mouse, Rabbit, Zebrafish, Pig, Chicken, Dog, Guinea Pig, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	43956

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.

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

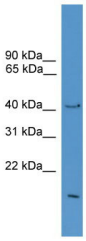
NOTCH EGF repeats. This extended fucosylation is required for optimal ligand binding and canonical NOTCH signaling induced by DLL1 or JAGGED1. Fucosylates AGRN and determines its ability to cluster acetylcholine receptors (AChRs).

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

References

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

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.