

Rabbit POFUT1 Polyclonal Antibody | anti-POFUT1 antibody

POFUT1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA324751	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

POFUT1; Polyclonal Antibody; POFUT1 Antibody; FUT 12; FUT12; GDP fucose protein O fucosyltransferase 1; GDP-fucose protein O-fucosyltransferase 1; O Fuc T; o fucosyltransferase protein; O FucT 1; O FucT; O FucT1; O FUT; O-FucT-1; OFUT 1; OFUT; OFUT1; OFUT1_HUMAN; Peptide O fucosyltransferase1; Peptide-O-fucosyltransferase 1; Pofut 1; Protein O fucosyltransferase1; anti-POFUT1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	POFUT1 antibody detects endogenous levels of total POFUT1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	388
Applicable Applications for anti-POFUT1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Endoplasmic Reticulum.
Tissue Specificity	Highly expressed in heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Dog, Chicken, Xenopus
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Dog (100%), Chicken (100%), Xenopus (89%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA324751 staining HeLa cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from HeLa cells using POFUT1 antibody.



IHC (Immunohistochemistry)

AAA324751 at 1/100 staining Mouse liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-POFUT1 antibody

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).
Post-translational Modifications: N-glycosylated.
Similarity: Belongs to the glycosyltransferase 65 family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	27436889
NCBI GeneID	23509
NCBI Accession #	NP_056167.1
NCBI GenBank Nucleotide #	NM_015352.1
UniProt Accession #	Q9H488; Q14685; Q5W185; Q9BW76; A8K4R8; E1P5M4
Molecular Weight	Observed: 44 kD Predicted: 44 kDa
NCBI Official Full Name	GDP-fucose protein O-fucosyltransferase 1 isoform 1
NCBI Official Synonym Full Names	protein O-fucosyltransferase 1
NCBI Official Symbol	POFUT1
NCBI Official Synonym Symbols	DDD2; FUT12; O-FUT; OFUCT1; O-Fuc-T; O-FucT-1
NCBI Protein Information	GDP-fucose protein O-fucosyltransferase 1
UniProt Protein Name	GDP-fucose protein O-fucosyltransferase 1
UniProt Gene Name	POFUT1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/pofut1-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/324751>