Immunotag™ POFUT1 Antibody

Antibody Specification

Catalog No.	ITA4963
Product Description	Immunotag™ POFUT1 Antibody
Size	100 µg, 200 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	POFUT1
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC,IF/ICC,ELISA
Recommended Dilution	WB 1:500~1:1000 IHC: 1:50~1:200, IF/ICC 1:100-1:500
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	A synthesized peptide
Specificity	POFUT1 Antibody detects endogenous levels of total POFUT1
Purification	The antiserum was purified by peptide affinity chromatography.
Form	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt
Gene Name	POFUT1
Accession No.	Q9H488
Alternate Names	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; POFUT1; Protein O fucosyltransferase1;

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Description	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).
Cell Pathway/ Category	Primary Polyclonal Antibody
Protein MW	44 KD
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.