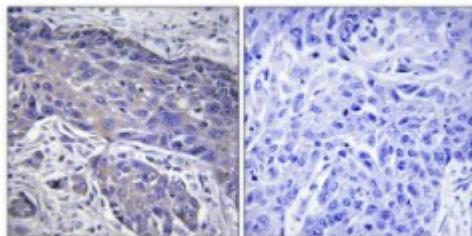


## Anti-O-FucT-1 antibody



<b>Description</b>	Rabbit polyclonal to O-FucT-1.
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<b>Model</b>	STJ94602
<b>Host</b>	Rabbit
<b>Reactivity</b>	Human, Mouse, Rat
<b>Applications</b>	ELISA, IHC, WB
<b>Immunogen</b>	Synthesized peptide derived from human O-FucT-1
<b>Immunogen Region</b>	300-380 aa, C-terminal
<b>Gene ID</b>	<a href="#">23509</a>
<b>Gene Symbol</b>	<a href="#">POFUT1</a>
<b>Dilution range</b>	WB 1:500-1:2000IHC 1:100-1:300ELISA 1:40000
<b>Specificity</b>	O-FucT-1 Polyclonal Antibody detects endogenous levels of O-FucT-1 protein.
<b>Tissue Specificity</b>	Highly expressed in heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas.
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Note</b>	For Research Use Only (RUO).
<b>Protein Name</b>	GDP-fucose protein O-fucosyltransferase 1 Peptide-O-fucosyltransferase 1 O-FucT-1
<b>Molecular Weight</b>	44 kDa

<b>Clonality</b>	Polyclonal
<b>Conjugation</b>	Unconjugated
<b>Isotype</b>	IgG
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Concentration</b>	1 mg/ml
<b>Storage Instruction</b>	Store at -20°C, and avoid repeat freeze-thaw cycles.
<b>Database Links</b>	<a href="#">HGNC:14988</a> <a href="#">OMIM:607491</a>
<b>Alternative Names</b>	GDP-fucose protein O-fucosyltransferase 1 Peptide-O-fucosyltransferase 1 O-FucT-1
<b>Function</b>	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).
<b>Cellular Localization</b>	Endoplasmic reticulum
<b>Post-translational Modifications</b>	N-glycosylated.

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