

# FUT10 Rabbit pAb

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Catalog # AP56174

## Product Information

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<b>Application</b>	WB, IHC-P, IHC-F, IF
<b>Primary Accession</b>	<a href="#">Q6P4F1</a>
<b>Reactivity</b>	Human, Mouse, Rat
<b>Predicted</b>	Dog, Sheep, Chimpanzee
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	56094
<b>Physical State</b>	Liquid
<b>Immunogen</b>	KLH conjugated synthetic peptide derived from human FUT10
<b>Epitope Specificity</b>	381-479/479
<b>Isotype</b>	IgG
<b>Purity</b>	affinity purified by Protein A
<b>Buffer</b>	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
<b>SUBCELLULAR LOCATION</b>	Golgi apparatus; Golgi stack membrane.
<b>SIMILARITY</b>	Belongs to the glycosyltransferase 10 family.
<b>Important Note</b>	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
<b>Background Descriptions</b>	Glycosyltransferases that mediate the regio- and stereoselective transfer of sugars, such as the fucosyltransferases, determine cell surface-carbohydrate profiles, which is an essential interface for biological recognition processes. Fucosyltransferases catalyze the covalent association of fucose to different positional linkages in sugar acceptor molecules. Hematopoietic lineages rely on Fucosyltransferases to confer a surface carbohydrate phenotype, which mediates proper cell adhesion, molecule recruitment and cell trafficking. Localized to the Golgi apparatus as a single-pass transmembrane protein, FucT-X, also designated $\alpha(1,3)$ -fucosyltransferase 10 or FUT10, is a 479 amino acid protein that is involved in protein modification and glycosylation. There are seven isoforms of FucT-X that are produced as a result of alternative splicing events.

## Additional Information

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<b>Gene ID</b>	84750
<b>Other Names</b>	GDP-fucose protein O-fucosyltransferase 3, 2.4.1.221, Alpha-(1,3)-fucosyltransferase 10, 2.4.1.-, Fucosyltransferase X, Fuc-TX, FucT-X, Galactoside 3-L-fucosyltransferase 10, Fucosyltransferase 10, FUT10 {ECO:0000303 PubMed:19088067, ECO:0000312 HGNC:HGNC:19234}
<b>Dilution</b>	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500

**Storage** Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

## Protein Information

**Name** POFUT3 {ECO:0000303 | PubMed:39775168, ECO:0000312 | HGNC:HGNC:19234}

**Function** Protein O-fucosyltransferase that specifically catalyzes O- fucosylation of serine or threonine residues in EMI domains of target proteins, such as MMRN1, MMRN2 and EMID1 (PubMed:[39775168](#)). Attaches fucose through an O-glycosidic linkage (PubMed:[39775168](#)). O- fucosylation of EMI domain-containing proteins may be required for facilitating protein folding and secretion (PubMed:[39775168](#)). May also show alpha-(1,3)-fucosyltransferase activity toward the innermost N- acetyl glucosamine (GlcNAc) residue in biantennary N-glycan acceptors (PubMed:[19088067](#)). However, this was tested with a library of synthetic substrates and this activity is unsure in vivo (PubMed:[19088067](#)). May be involved in biosynthesis of Lewis X-carrying biantennary N-glycans that regulate neuron stem cell self-renewal during brain development (By similarity).

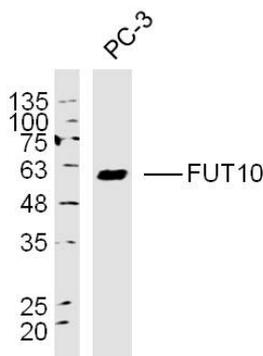
**Cellular Location** Endoplasmic reticulum membrane; Single-pass type II membrane protein [Isoform 4]: Golgi apparatus. Lysosome

**Tissue Location** Expressed in lung, digestive tract, gall bladder, placenta, kidney, uterus and brain. Not detected in spleen, heart, muscle, liver and pancreas.

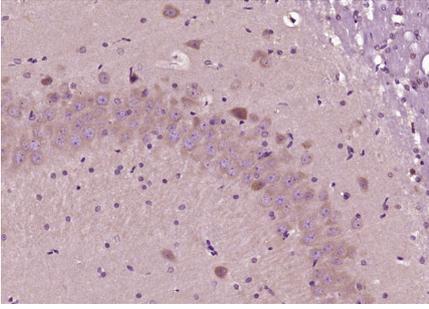
## Background

Glycosyltransferases that mediate the regio- and stereoselective transfer of sugars, such as the fucosyltransferases, determine cell surface-carbohydrate profiles, which is an essential interface for biological recognition processes. Fucosyltransferases catalyze the covalent association of fucose to different positional linkages in sugar acceptor molecules. Hematopoietic lineages rely on Fucosyltransferases to confer a surface carbohydrate phenotype, which mediates proper cell adhesion, molecule recruitment and cell trafficking. Localized to the Golgi apparatus as a single-pass transmembrane protein, FucT-X, also designated  $\alpha$ -(1,3)-fucosyltransferase 10 or FUT10, is a 479 amino acid protein that is involved in protein modification and glycosylation. There are seven isoforms of FucT-X that are produced as a result of alternative splicing events.

## Images



Sample: PC-3 (human) cell Lysate at 40 ug  
Primary: Anti- FUT10 (AP56174) at 1/300 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 56 kD  
Observed band size: 56 kD



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (FUT10) Polyclonal Antibody, Unconjugated (AP56174) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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