

# FUT10 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP56174

## **Product Information**

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q6P4F1
Reactivity	Rat, Dog, Chimpanzee
Host	Rabbit
Clonality	Polyclonal
Calculated MW	56094
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human FUT10
Epitope Specificity	381-479/479
Isotype	IgG
Purity	affinity purified by Protein A
Buffer SUBCELLULAR LOCATION SIMILARITY Important Note Background Descriptions	<ul> <li>0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.</li> <li>Golgi apparatus; Golgi stack membrane.</li> <li>Belongs to the glycosyltransferase 10 family.</li> <li>This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.</li> <li>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.</li> <li>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.</li> <li>Localized to the Golgi apparatus as a single-pass transmembrane protein, FucT-X, also designated ?(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.</li> </ul>

## **Additional Information**

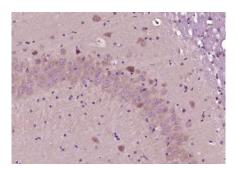
Gene ID	84750
Other Names	Alpha-(1, 3)-fucosyltransferase 10, 2.4.1, Fucosyltransferase X, Fuc-TX, FucT-X, Galactoside 3-L-fucosyltransferase 10, Fucosyltransferase 10, FUT10
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-50 0,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce

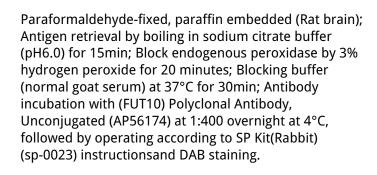
Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

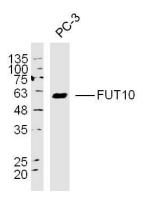
#### **Protein Information**

Name	FUT10 {ECO:0000303 PubMed:19088067, 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: <u>39775168</u> ). Attaches fucose through an O-glycosidic linkage (PubMed: <u>39775168</u> ). O- fucosylation of EMI domain-containing proteins may be required for facilitating protein folding and secretion (PubMed: <u>39775168</u> ). May also show alpha-(1,3)-fucosyltransferase activity toward the innermost N- acetyl glucosamine (GlcNAc) residue in biantennary N-glycan acceptors (PubMed: <u>19088067</u> ). However, this was tested with a library of synthetic substrates and this activity is unsure in vivo (PubMed: <u>19088067</u> ). 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.

#### Images

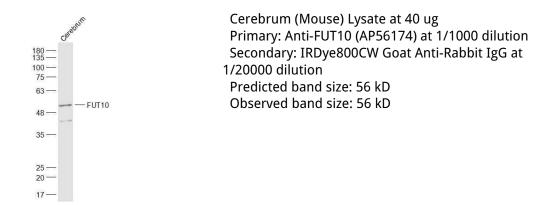






Sample: PC-3 (human)cell Lysate at 40 ug Primary: Anti- FUT10 (AP56174) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 56 kD Observed band size: 56 kD

Sample:



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