

FUT11 Rabbit pAb

Catalog # AP98561

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q495W5
Other Accession	Q495W5
Reactivity	Rat, Human
Predicted	Pig, Mouse, Rabbit, Dog, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	55816
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from Human FUT11/FucT-XI
Epitope Specificity	301-440/492
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the glycosyltransferase 10 family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Glycosyltransferases that mediate the regio- and stereoselective transfer of sugars, such as the fucosyltransferases, determine cell surface-carbohydrate profiles, which are essential interfaces for biological recognition processes. Fucosyltransferases (FucTs) catalyze the covalent association of fucose to different positional linkages on sugar acceptor molecules. The carbohydrate moieties that are generated are covalently attached to cell surfaces and are necessary to ensure a surface contour that satisfies a variety of physiological roles. FucT-XI is a 492 amino acid single-pass type II membrane protein that belongs to the glycosyltransferase 10 family. Localizing to Golgi apparatus, FucT-XI may act as a fucosyltransferase and exists as two alternatively spliced isoforms. The gene encoding FucT-XI maps to mouse chromosome 14 A3.

Additional Information

Gene ID	170384
Other Names	FUCTXI; FUT11; OFUT4_HUMAN; Alpha-(1, 3)-fucosyltransferase 11; Fucosyltransferase XI (Fuc-TXI FucT-XI); Galactoside 3-L-fucosyltransferase 11 (Fucosyltransferase 11); 2.4.1.221; POFUT4;
Dilution	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	POFUT4 {ECO:0000303 PubMed:39775168, ECO:0000312 HGNC:HGNC:19233}
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). Also shows minor alpha-(1,3)-fucosyltransferase activity toward activity toward 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).
Cellular Location	Endoplasmic reticulum membrane; Single-pass type II membrane protein

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