

FUT9 Rabbit pAb

CatalogNo: YN8730

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB

MW

- 39kD (Calculated)

Isotype

- IgG

Recommended Dilution Ratios

WB 1:500-2000

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized peptide derived from human FUT9

Specificity This antibody detects endogenous levels of FUT9 at Human, Mouse, Rat

Target Information

Gene name FUT9

Protein Name	Alpha-(1,3)-fucosyltransferase (Fucosyltransferase 9) (Fucosyltransferase IX) (Fuc-TIX) (FucT-IX) (Galactoside 3-L-fucosyltransferase)		
	Organism	Gene ID	UniProt ID
	Human	10690 ;	Q9Y231 ;
	Mouse	14348 ;	O88819 ;
	Rat	84597 ;	Q99JB3 ;
Cellular Localization	Golgi apparatus, trans-Golgi network membrane ; Single-pass type II membrane protein . Golgi apparatus membrane .		
Tissue specificity	Strongly expressed in forebrain and stomach, lower expression in spleen and peripheral blood leukocytes, and no expression in small intestine, colon, liver, lung, kidney, adrenal cortex or uterus (PubMed:10386598). Highly expressed in granulocytes. Not expressed in monocytes (PubMed:11278338).		
Function	Catalyzes the transfer of L-fucose, from a guanosine diphosphate-beta-L-fucose, to the N-acetyl glucosamine (GlcNAc) of a distal lactosamine unit of a glycoprotein or a glycolipid-linked polylactosamine chains through an alpha-1,3 glycosidic linkage and participates in particular to the Lewis x (Lex)/CD15 epitope biosynthesis in neurons which allows cell differentiation, cell adhesion, and initiation of neurite outgrowth . Also fucosylates di-, tri- and tetraantennary N-glycans linked to glycoproteins and the inner lactosamine unit of the alpha2,3-sialylated polylactosamine resulting in sLex (CD15s) epitope synthesis . Furthermore, it is capable of synthesizing Lewis a (Lea), although to a lesser extent than Lex and Lewis y (Ley) and to confer SELE-dependent, but not SELL- and SELP-selectin-dependent, cell rolling and adhesion by enhancing Lex and sLex synthesis . May also fucosylate the internal LacNAc unit of the polylactosamine chain to form VIM-2 antigen that serves as recognition epitope for SELE.		

| Validation Data

| Contact information

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