FUT9 Mouse mAb

Catalog No	YP-mAb-19190
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB
Gene Name	FUT9
Protein Name	Alpha-(1,3)-fucosyltransferase (Fucosyltransferase 9) (Fucosyltransferase IX) (Fuc-TIX) (FucT-IX) (Galactoside 3-L-fucosyltransferase)
Immunogen	Synthesized peptide derived from human FUT9
Specificity	This antibody detects endogenous levels of FUT9 at Human, Mouse,Rat
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal,Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	
Calculated Molecular Weight	39kD
Cell Pathway	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.
Background	
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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