Rabbit Anti-Human FUT10 Monoclonal Antibody

Cat. No. CAB11547RH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Rabbit Monoclonal Antibody to Human FUT10
Species	Human
Source	Rabbit
Antigen Description	Human Alpha--fucosyltransferase 10, also known as Galactoside 3-L-fucosyltransfera se 10, Fucosyltransferase 10, Fucosyltransferase X, Fuc-TX, and FUT10, is single-pa ss type I I membrane protein which belongs to the glycosyltransferase 10 family. Fuco syltransferases are the enzymes transferring fucose from GDP-Fuc to Gal in an alpha 1,2-linkage and to GlcNAc in alpha1,3-linkage, alpha1,4-linkage, or alpha1,6-linkage. All fucosyltransferases utilize the same nucleotide sugar, their specificity reside in the recognition of the acceptor and in the type of linkage formed. Fucosyltransferases sha re some common structural and catalytic features. On the basis of protein sequence s imilarities, these enzymes can be classified into four distinct families:the alpha-2-fuco syltransferases,the alpha-3-fucosyltransferases,the mammalian alpha-6-fucosyltransf erases, andthe bacterial alpha-6-fucosyltransferases. The alpha-3-fucosyltransferase s constitute a distinct family as they lack the consensus peptide, but some regions dis play similarities with the alpha-2 and alpha-6-fucosyltranferases.
Specificity	Human Fucosyltransferase 10 / FUT10. No cross-reactivity with human cell lysate (293 cell line) in WB and ELISA.
Immunogen	Recombinant human FUT10 protein

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Isotype	Rabbit IgG
Cross Reactivity	003
Clone	A004
Applications	WB; ELISA
Dilution	Western blot: This antibody can be used at 1 - 2 µg/mL with the appropriate secondary reagents to detect human FUT10 in WB. Using a DAB detection system, the detection limit for human FUT10 is approximately 0.5 ng/lane under non-reducing conditions and 2 ng/lane under reducing conditionsELISA: This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human FUT10. The detection limit for human FUT10 is approximately 0.078 ng/well
Preparation	This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant human FUT10.
Format	0.2 µm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8 °C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70 °C. Preservative-Free.Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	FUT10 fucosyltransferase 10 (alphafucosyltransferase) [Homo sapiens]
Official Symbol	FUT10

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Synonyms	FUT10; fucosyltransferase 10 (alphafucosyltransferase); alpha--fucosyltransferase 10; fuc-TX; fucT-X; fucosyltransferase X; alpha 1,3-fucosyl transferase; galactoside 3-L-fucosyltransferase 10; MGC11141;
Gene ID	84750
mRNA Refseq	NM_032664
Protein Refseq	NP_116053
UniProt ID	Q6P4F1
Chromosome Location	8p12
Function	alpha-(1->3)-fucosyltransferase activity; transferase activity, transferring glycosyl groups;

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