FUT4 monoclonal antibody, clone MEM-158 (PE)

Catalog # MAB4533 Size 100 Reactions

Specification

Product Description	Mouse monoclonal antibody raised against native FUT4.
Immunogen	Native purified FUT4 from human granulocytes.
Host	Mouse
Reactivity	Human
Specificity	This antibody reacts with CD15, a cell membrane molecule 3-fucosyl-N-acetyllactosamine (3-FAL) st rongly expressed on granulocytes, monocytes, macrophages, mast cells; it is also present on Langer hans cells and some myeloid precursors cells.
Form	Liquid
Conjugation	PE
Isotype	IgM
Recommend Usage	Flow Cytometry (20 ul in human blood cells 100 ul in whole blood or 10^6 cells in a suspension) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.2% BSA, 0.09% sodium azide)
Storage Instruction	Store in the dark at 4°C. Do not freeze. Avoid prolonged exposure to light. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Flow Cytometry

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Gene Info — FUT4

Entrez GeneID	2526
Gene Name	FUT4
Gene Alias	CD15, ELFT, FCT3A, FUC-TIV, FUTIV
Gene Description	fucosyltransferase 4 (alpha (1,3) fucosyltransferase, myeloid-specific)
Omim ID	104230
Gene Ontology	Hyperlink
Gene Summary	The product of this gene transfers fucose to N-acetyllactosamine polysaccharides to generate fucosylated carbohydrate structures. It catalyzes the synthesis of the non-sialylated antigen, Lewis x (CD15). [provided by RefSeq
Other Designations	ELAM ligand fucosyltransferase|fucosyltransferase 4|fucosyltransferase IV|galactoside 3-L-fucosyltransferase

Publication Reference

- Normal cellular prion protein is a ligand of selectins: binding requires Le(X) but is inhibited by sLe(X).

  Li C, Wong P, Pan T, Xiao F, Yin S, Chang B, Kang SC, Ironside J, Sy MS.

  The Biochemical Journal 2007 Sep; 406(2):333.

- Differential expression of sialyl and non-sialyl-CD15 antigens on Hodgkin-Reed-Sternberg cells: significance in Hodgkin's disease.

  Benharroch D, Dima E, Levy A, Ohana-Malka O, Ariad S, Prinsloo I, Mejirovsky E, Sacks M, Gopas J.

  Leukemia & Lymphoma 2000 Sep; 39(1-2):185.

  Application: IHC-P, Human, Hodgkin-reed-sternberg cells in tumors from patients with Hodgkin's disease

- Le(X) and related structures as adhesion molecules.

  Hakomori S.

  The Histochemical Journal 1992 Nov; 24(11):771.

Pathway

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- Glycosphingolipid biosynthesis - lacto and neolacto series

- Metabolic pathways

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