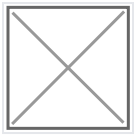
CD15 Antibody – Mouse Monoclonal

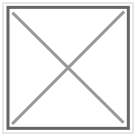
PRODUCT OVERVIEW

Product Name	CD15, Monoclonal Antibody
Full Product Name	Anti-Hu CD15 PE-Cyanine5
Product Gene Name	anti-CD15 antibody
Product Synonym Gene Name	FUT4
Product Synonym Names	fucosyltransferase 4; Lewis x Blood Group antigen; Le(x); SSEA-1; 3-fucosyl-N-acetyllactosamine
Clonality	Monoclonal
Isotype	IgM kappa
Clone Number	MMA
Host	Mouse
Species Reactivity	Human
Form/Format	Stabilizing phosphate buffered saline (PBS) solution containing 15 mM sodium azide
Purity/Purification	The purified antibody is conjugated with tandem dye PE-Cyanine5 under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Specificity	The mouse monoclonal antibody MMA reacts with an extracellular epitope of CD15, a cell membrane molecule 3-fucosyl-N-acetyllactosamine (3-FAL) strongly expressed on granulocytes, monocytes, macrophages, mast cells; it is also present on Langerhans cells and some myeloid precursors cells. This antibody is a superior reagent for identifying of Hodgkin's lymphoma.
Preparation and Storage	Store in the dark at 2-8 degree C. Do not freeze. Avoid prolonged exposure to light.
Matching Pairs	Unconjugated Antibody: CD15 Clone #MMA (MBS1801340) PE-CY5 Conjugated Antibody: CD15 Clone #MMA (MBS1801343)
OMIM	M58596 mRNA
3D Structure	ModBase 3D Structure for P22083
Immunogen	U937 histiocytic lymphoma cells
Conjugation	PE-Cyanine5
Applications Tested/Suitable for anti-CD15 antibody	Flow Cytometry (FC/FACS)
Application Notes for anti-CD15 antibody	FC/FACS: QC tested
Related Product Information for anti-CD15 antibody	CD15 (Lewis X, Le(x); stage specific embryonic antigen-1, SSEA-1) is a trisacharide determinant (3-fucosyl-N-acetyllactosamine) expressed on several glycolipids, glycoproteins and proteoglycans of various cell types, e.g. granulocytes, mast cells, monocytes, macrophages, cells of gastric mucosa, nervous system or various tumour cells. There are several variants of Lewis x, such as sialyl-Lewis x or sulphated Lewis x. Cells with high surface expression of Le(x) antigen exhibit strong self-aggregation, based on calcium-dependent Le(x)-Le(x) interaction. This process is involved for example in embryo compaction or in autoaggregation of teratocarcinoma cells. Sialyl-Le(x) and its isomer sialyl-Le(a) are ligands of selectins. CD15 expression has been extensively used to confirm identification of Hodgkin's disease.
Other Notes	Small volumes of anti-CD15 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for CD15 purchase	MBS1801343 is an antibody targeting CD15. Also known as Anti-Hu CD15 PE-Cyanine5. Reactive in Human. Host: Mouse.



Flow Cytometry (FC/FACS) of anti-CD15 antibody
Separation of human neutrophil granulocytes (red-filled) from CD15 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD15 (MMA) PE-Cy™5 antibody (4 ul reagent / 100 ul of peripheral whole blood).



Flow Cytometry (FC/FACS) of anti-CD15 antibody
Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD15 (MMA) PE-Cy™5 antibody (4 ul reagent / 100 ul of peripheral whole blood).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD15. It may not necessarily be applicable to this product.

NCBI GI #	4503811
NCBI GeneID	2526
NCBI Accession #	NP_002024.1
UniProt Primary Accession #	P22083
UniProt Related Accession #	P22083
GenBank Nucleotide #	NP_002024.1
NCBI Official Full Name	alpha-(1,3)-fucosyltransferase 4
NCBI Official Synonym Full Names	fucosyltransferase 4
NCBI Official Symbol	FUT4
NCBI Official Synonym Symbols	LeX; CD15; ELFT; FCT3A; FUTIV; SSEA-1; FUC-TIV
UniProt Protein Name	Alpha-(1,3)-fucosyltransferase 4
UniProt Synonym Protein Names	ELAM-1 ligand fucosyltransferase; Fucosyltransferase 4; Fucosyltransferase IV; Fuc-TIV; FucT-IV; Galactoside 3-L-fucosyltransferase
Protein Family	CD151 antigen
UniProt Gene Name	FUT4
UniProt Synonym Gene Names	ELFT; FCT3A; Fuc-TIV; FucT-IV
NCBI Protein Information	alpha-(1,3)-fucosyltransferase 4
NCBI Summary for CD15	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, Jan 2009]
UniProt Comments for CD15	May catalyze alpha-1,3 glycosidic linkages involved in the expression of Lewis X/SSEA-1 and VIM-2 antigens.
Research Articles on CD15	**1.** High FUT4 expression and CD15 are associated with lung and brain metastasis.
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