

# CD15 Antibody

Purified Mouse Monoclonal Antibody Catalog # AO1589a

## **Product Information**

Application Primary Accession Reactivity Host Clonality Clone Names Isotype Calculated MW Description	IHC, ICC, E P22083 Human Mouse Monoclonal 4E10 IgG1 59084 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).
Immunogen	Synthesized peptide of human CD15.
Formulation	Ascitic fluid containing 0.03% sodium azide.

## **Additional Information**

Gene ID	2526
Other Names	Alpha-(1, 3)-fucosyltransferase 4, 2.4.1, ELAM-1 ligand fucosyltransferase, Fucosyltransferase 4, Fucosyltransferase IV, Fuc-TIV, FucT-IV, Galactoside 3-L-fucosyltransferase, FUT4, ELFT, FCT3A
Dilution	IHC~~1/200 - 1/1000 ICC~~N/A E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	CD15 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

#### **Protein Information**

Name	FUT4 {ECO:0000303 PubMed:29593094}
Function	[Isoform Short]: Catalyzes alpha(1->3) linkage of fucosyl moiety transferred from GDP-beta-L-fucose to N-acetyl glucosamine (GlcNAc) within type 2 lactosamine (LacNAc, Gal-beta(1->4)GlcNAc) glycan attached to N- or O-linked

Robustly fucosylates nonsialylated d chain to form Lewis X antigen (CD15 important cellular functions in devel lower efficiency sialylated LacNAc ac sialyl Lewis X determinants that serv lectins (PubMed: <u>1716630</u> , PubMed: <u>2</u> contributes to SELE, SELL and SELP s selectin-dependent lymphocyte hom leukocyte homeostasis (By similarity fucosylate the internal LacNAc unit o VIM-2 antigen that serves as recogni PubMed: <u>1716630</u> ).	listal LacNAc unit of the polylactosamine ), a glycan determinant known to mediate lopment and immunity. Fucosylates with cceptors to form sialyl Lewis X and 6- sulfo ve as recognition epitopes for C-type 29593094). Together with FUT7 selectin ligand biosynthesis and hing, leukocyte migration and blood v). In a cell type specific manner, may also of the polylactosamine chain to form ition epitope for SELE (PubMed: <u>11278338</u> ,
Cellular Location Golgi apparatus, Golgi stack membra protein. Note=Membrane-bound for	ane; Single- pass type II membrane m in trans cisternae of Golgi
<b>Tissue Location</b> [Isoform Short]: Expressed at low lev mesenchymal stem cells.	vels in bone marrow-derived

## References

1. Cancer Cell. 2009 Feb 3;15(2):135-47. 2. Biochim Biophys Acta. 2008 Feb;1783(2):287-96.

#### Images



Figure 1: Immunohistochemical analysis of paraffin-embedded human cerebellum tissues (left) and human liver cancer tissues (right) using CD15 mouse mAb with DAB staining.

Figure 2: Immunofluorescence analysis of PC-2 cells using CD15 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.