

**CD15 Antibody**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO1589a**

**Specification**

**CD15 Antibody - Product Information**

Application	E, IHC, IF
Primary Accession	<a href="#">P22083</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	59kDa KDa

**Description**

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. <br />

**Formulation**

Ascitic fluid containing 0.03% sodium azide.

**CD15 Antibody - 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**

E~~1/10000  
IHC~~1/200 - 1/1000  
IF~~1/200 - 1/1000

**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.

**CD15 Antibody - 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 glycoproteins (PubMed:<a href="http://www.uniprot.org/citations/1702034" target="\_blank">1702034</a>, PubMed:<a href="http://www.uniprot.org/citations/1716630" target="\_blank">1716630</a>, PubMed:<a href="http://www.uniprot.org/citations/29593094" target="\_blank">29593094</a>). Robustly fucosylates nonsialylated distal LacNAc unit of the polylactosamine chain to form Lewis X antigen (CD15), a glycan determinant known to mediate important cellular functions in development and immunity. Fucosylates with lower efficiency sialylated LacNAc acceptors to form sialyl Lewis X and 6- sulfo sialyl Lewis X determinants that serve as recognition epitopes for C-type lectins (PubMed:<a href="http://www.uniprot.org/citations/1716630" target="\_blank">1716630</a>, PubMed:<a href="http://www.uniprot.org/citations/29593094" target="\_blank">29593094</a>). Together with FUT7 contributes to SELE, SELL and SELP selectin ligand biosynthesis and selectin-dependent lymphocyte homing, leukocyte migration and blood leukocyte homeostasis (By similarity). In a cell type specific manner, may also fucosylate the internal LacNAc unit of the polylactosamine chain to form VIM-2 antigen that serves as recognition epitope for SELE (PubMed:<a href="http://www.uniprot.org/citations/11278338" target="\_blank">11278338</a>, PubMed:<a href="http://www.uniprot.org/citations/1716630" target="\_blank">1716630</a>).

**Cellular Location**

Golgi apparatus, Golgi stack membrane; Single- pass type II membrane protein.  
 Note=Membrane-bound form in trans cisternae of Golgi

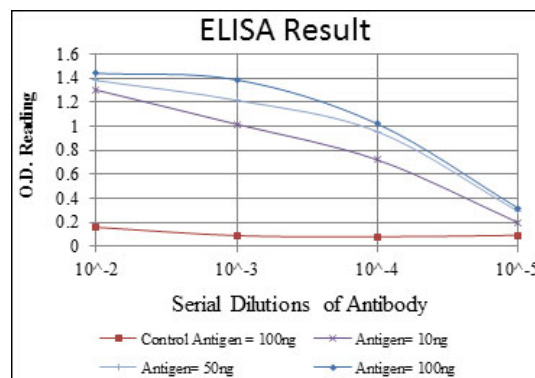
**Tissue Location**

[Isoform Short]: Expressed at low levels in bone marrow-derived mesenchymal stem cells.

**CD15 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)



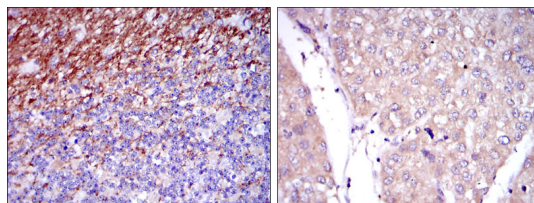


Figure 1: Immunohistochemical analysis of paraffin-embedded human cerebellum tissues (left) and human liver cancer tissues (right) using CD15 mouse mAb with DAB staining.

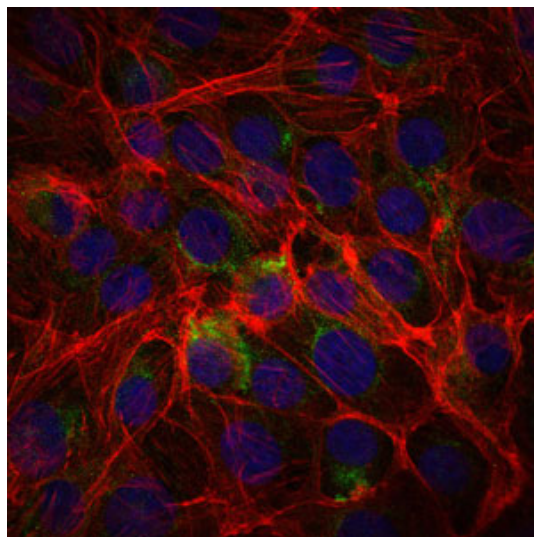


Figure 2: Immunofluorescence analysis of PC-2 cells using CD15 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

### CD15 Antibody - References

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