

FUT4 Antibody
Mouse Monoclonal Antibody (Mab)
Catalog # AM2040a

Specification

FUT4 Antibody - Product Information

Application	WB,E
Primary Accession	P22083
Other Accession	O11127 , NP_002024.1
Reactivity	Human
Predicted	Mouse
Host	Mouse
Clonality	Monoclonal
Isotype	IgM
Antigen Region	425-454

FUT4 Antibody - Additional Information

Gene ID 2526

Other Names

Alpha-(1, 3)-fucosyltransferase 4, 241-, ELAM-1 ligand fucosyltransferase, Fucosyltransferase 4, Fucosyltransferase IV, Fuc-TIV, FucT-IV, Galactoside 3-L-fucosyltransferase, FUT4, ELFT, FCT3A

Target/Specificity

This FUT4 antibody is generated from mice immunized with a KLH conjugated synthetic peptide between 425-454 amino acids from human FUT4.

Dilution

WB~~1:500~1000

Format

Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Euglobin precipitation followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

FUT4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

FUT4 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:[1702034](#), PubMed:[1716630](#), PubMed:[29593094](#)). Robustly fucosylates nonsialylated distal LacNAc unit of the poly lactosamine 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:[1716630](#), PubMed:[29593094](#)). 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 poly lactosamine chain to form VIM-2 antigen that serves as recognition epitope for SELE (PubMed:[11278338](#), PubMed:[1716630](#)).

Cellular Location

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

Tissue Location

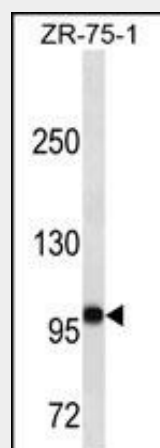
[Isoform Short]: Expressed at low levels in bone marrow-derived mesenchymal stem cells.

FUT4 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](#)

FUT4 Antibody - Images



FUT4 Antibody (Cat. #AM2040a) western blot analysis in ZR-75-1 cell line lysates (35µg/lane). This demonstrates the FUT4 antibody detected the FUT4 protein (arrow).

FUT4 Antibody - Background

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).

FUT4 Antibody - References

Yang, X.S., et al. J. Cell. Physiol. 225(2):612-619(2010)
Trubiani, O., et al. J. Cell. Physiol. 225(1):123-131(2010)
Pruszek, J., et al. Stem Cells 27(12):2928-2940(2009)
Ogata, K., et al. Haematologica 94(8):1066-1074(2009)
Read, T.A., et al. Cancer Cell 15(2):135-147(2009)

FUT4 Antibody - Citations

- [Baicalin promotes embryo adhesion and implantation by upregulating fucosyltransferase IV \(FUT4\) via Wnt/beta-catenin signaling pathway.](#)