

FUT4 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP12067b**Specification**

FUT4 Antibody (C-term) Blocking peptide - Product InformationPrimary Accession [P22083](#)**FUT4 Antibody (C-term) Blocking peptide - 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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

FUT4 Antibody (C-term) Blocking peptide - 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:29593094, PubMed:1702034, PubMed:1716630). 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:29593094, PubMed:1716630). 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:1716630),

PubMed:11278338).

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 (C-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

FUT4 Antibody (C-term) Blocking peptide - Images**FUT4 Antibody (C-term) Blocking peptide - Background**

The product of this gene transfers fucose toN-acetyllactosamine polysaccharides to generate fucosylatedcarbohydrate structures. It catalyzes the synthesis of thenon-sialylated antigen, Lewis x (CD15).

FUT4 Antibody (C-term) Blocking peptide - 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)