

**FUT7 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP16272a**

**Specification**

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**FUT7 Antibody (N-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">O11130</a>
Other Accession	<a href="#">NP_004470.1</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	39239
Antigen Region	78-106

**FUT7 Antibody (N-term) - Additional Information**

**Gene ID** 2529

**Other Names**

Alpha-(1, 3)-fucosyltransferase 7, 241-, Fucosyltransferase 7, Fucosyltransferase VII, Fuc-TVII, FutC-VII, Galactoside 3-L-fucosyltransferase, Selectin ligand synthase, FUT7

**Target/Specificity**

This FUT7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 78-106 amino acids from the N-terminal region of human FUT7.

**Dilution**

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**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**

FUT7 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**FUT7 Antibody (N-term) - Protein Information**

**Name** FUT7 ([HGNC:4018](#))

**Function** Catalyzes the transfer of L-fucose, from a guanosine diphosphate-beta-L-fucose, to the

N-acetyl glucosamine (GlcNAc) of a distal alpha2,3 sialylated lactosamine unit of a glycoprotein or a glycolipid-linked sialopolylactosamines chain through an alpha-1,3 glycosidic linkage and participates in the final fucosylation step in the biosynthesis of the sialyl Lewis X (sLe(x)), a carbohydrate involved in cell and matrix adhesion during leukocyte trafficking and fertilization (PubMed:[11404359](#), PubMed:[15632313](#), PubMed:[15926890](#), PubMed:[18402946](#), PubMed:[18553500](#), PubMed:[29593094](#), PubMed:[8207002](#), PubMed:[8666674](#), PubMed:[8752218](#), PubMed:[9299472](#), PubMed:[9405391](#), PubMed:[9461592](#), PubMed:[9473504](#), PubMed:[9499379](#)). In vitro, also synthesizes sialyl-dimeric-Lex structures, from VIM-2 structures and both di-fucosylated and trifucosylated structures from mono-fucosylated precursors (PubMed:[9499379](#)). However does not catalyze alpha 1-3 fucosylation when an internal alpha 1-3 fucosylation is present in polylactosamine chain and the fucosylation rate of the internal GlcNAc residues is reduced once fucose has been added to the distal GlcNAc (PubMed:[9473504](#), PubMed:[9499379](#)). Also catalyzes the transfer of a fucose from GDP-beta-fucose to the 6-sulfated a(2,3)sialylated substrate to produce 6-sulfo sLex mediating significant L-selectin- dependent cell adhesion (PubMed:[10200296](#), PubMed:[8752218](#)). Through sialyl-Lewis(x) biosynthesis, can control SELE- and SELP-mediated cell adhesion with leukocytes and allows leukocytes tethering and rolling along the endothelial tissue thereby enabling the leukocytes to accumulate at a site of inflammation (PubMed:[10386892](#), PubMed:[29138114](#), PubMed:[8666674](#), PubMed:[9473504](#), PubMed:[9834120](#)). May enhance embryo implantation through sialyl Lewis X (sLeX)-mediated adhesion of embryo cells to endometrium (PubMed:[18402946](#), PubMed:[18553500](#)). May affect insulin signaling by up-regulating the phosphorylation and expression of some signaling molecules involved in the insulin-signaling pathway through SLe(x) which is present on the glycans of the INSRR alpha subunit (PubMed:[17229154](#)).

#### Cellular Location

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

#### Tissue Location

Leukocytic/myeloid lineage cells.

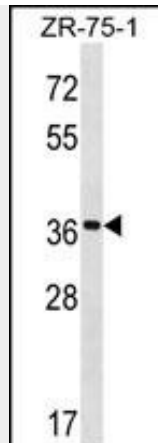
### FUT7 Antibody (N-term) - Protocols

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](#)

### FUT7 Antibody (N-term) - Images





FUT7 Antibody (N-term) (Cat. #AP16272a) western blot analysis in ZR-75-1 cell line lysates (35ug/lane). This demonstrates the FUT7 antibody detected the FUT7 protein (arrow).

#### **FUT7 Antibody (N-term) - Background**

The protein encoded by this gene is a Golgi stack membrane protein that is involved in the creation of sialyl-Lewis X antigens. The encoded protein can direct the synthesis of the E-selectin-binding sialyl-Lewis X moiety.

#### **FUT7 Antibody (N-term) - References**

- Li, W., et al. *Oncol. Rep.* 23(6):1609-1617(2010)
- Yoshida, T., et al. *Int. J. Mol. Med.* 25(4):649-656(2010)
- Oguri, M., et al. *Am. J. Hypertens.* 23(1):70-77(2010)
- Zhang, Y., et al. *Fertil. Steril.* 91(3):908-914(2009)
- Wang, Q.Y., et al. *J. Cell. Biochem.* 104(6):2078-2090(2008)