

FUT6 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12944a

Specification

FUT6 Antibody (N-term) - Product Information

Application	WB, IHC-P,E
Primary Accession	P51993
Other Accession	NP_001035791.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	41860
Antigen Region	20-49

FUT6 Antibody (N-term) - Additional Information

Gene ID 2528

Other Names

Alpha-(1, 3)-fucosyltransferase 6, Fucosyltransferase 6, Fucosyltransferase VI, Fuc-TVI, FucT-VI, Galactoside 3-L-fucosyltransferase, FUT6, FCT3A

Target/Specificity

This FUT6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 20-49 amino acids from the N-terminal region of human FUT6.

Dilution

WB~~1:1000
IHC-P~~1:10~50

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

FUT6 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

FUT6 Antibody (N-term) - Protein Information

Name FUT6 ([HGNC:4017](#))

Synonyms FCT3A

Function [Isoform 1]: 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 or of a distal or internal lactosamine unit of a neutral glycoprotein- or a glycolipid-linked polyactosamines chain through an alpha-1,3 glycosidic linkage and participates in surface expression of the sialyl Lewis X (sLe(x)), Lewis X (Le(x)) and non sialylated VIM2 determinants (PubMed:[10728707](#), PubMed:[1339443](#), PubMed:[1520296](#), PubMed:[17604274](#), PubMed:[29593094](#), PubMed:[7650030](#), PubMed:[9363434](#), PubMed:[9451035](#)). Moreover transfers fucose to H-type 2 (Fucalpha1-2Galbeta1-4GlcNAc) chain acceptor substrates and participates in difucosylated sialyl Lewis x determinants (PubMed:[1339443](#), PubMed:[17604274](#)). Also fucosylates a polyactosamine substrate having a 6 sulfate modification at the GlcNAc moiety and gives rise to sialyl and non-sialyl 6-sulfo lewis X (PubMed:[10728707](#)). Does not have activity towards type 1 ((Galbeta1-3GlcNAc)) and H-type 1 chain (Fucalpha1-2Galbeta1-3GlcNAc) acceptors substrates (PubMed:[1339443](#), PubMed:[17604274](#), PubMed:[9363434](#)).

Cellular Location

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

Tissue Location

Kidney, liver, colon, small intestine, bladder, uterus and salivary gland

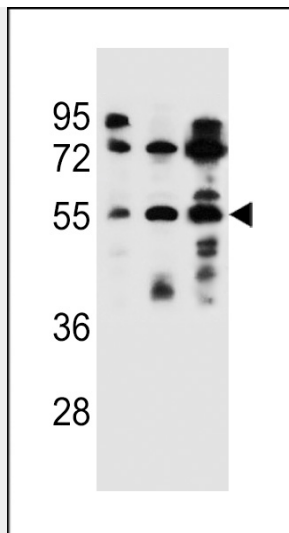
FUT6 Antibody (N-term) - Protocols

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

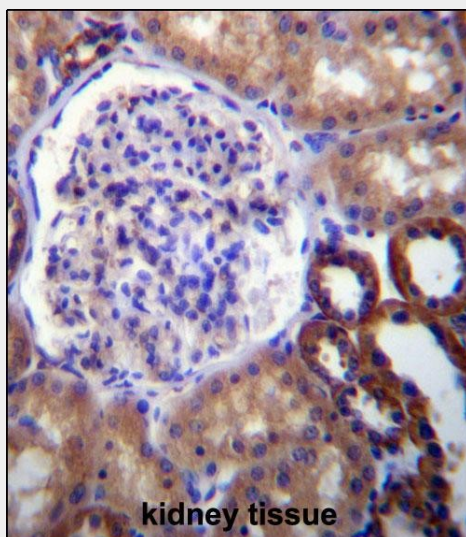
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

FUT6 Antibody (N-term) - Images





FUT6 Antibody (N-term) (Cat. #AP12944a) western blot analysis in ZR-75-1, NCI-H292, 293 cell line lysates (35ug/lane). This demonstrates the FUT6 antibody detected the FUT6 protein (arrow).



FUT6 Antibody (N-term) (Cat. #AP12944a) immunohistochemistry analysis in formalin fixed and paraffin embedded human kidney tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of FUT6 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

FUT6 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, an E-selectin ligand. Mutations in this gene are a cause of fucosyltransferase-6 deficiency. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq].

FUT6 Antibody (N-term) - References

- Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
- Stern, H.M., et al. Clin. Cancer Res. 16(5):1587-1596(2010)
- Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)

Norden, R., et al. *Glycobiology* 19(7):776-788(2009)
Higai, K., et al. *Glycoconj. J.* 25(3):225-235(2008)