10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# FUT6 Antibody (Center)

**Affinity Purified Rabbit Polyclonal Antibody (Pab)**

**Catalog # AP4925c**

## Specification

### FUT6 Antibody (Center) - Product Information

| | |
|---|---|
| Application | **WB, IHC-P, FC,E** |
| Primary Accession | P51993 |
| Reactivity | **Human** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |
| Isotype | **Rabbit IgG** |
| Calculated MW | **41860** |
| Antigen Region | **102-130** |

### FUT6 Antibody (Center) - 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 102-130 amino acids from the Central region of human FUT6.

**Dilution**
WB~~1:1000
IHC-P~~1:50~100
FC~~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 (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

### FUT6 Antibody (Center) - 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 polylactosamines 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:9451035, PubMed:1520296, PubMed:1339443, PubMed:7650030, PubMed:17604274, PubMed:9363434, PubMed:10728707, PubMed:29593094). Moreover transfers fucose to H-type 2 (Fucalpha1-2Galbeta1-4GlcNAc) chain acceptor substrates and participates in difucosylated sialyl Lewis x determinants (PubMed:17604274, PubMed:1339443). Also fucosylates a polylactosamine 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

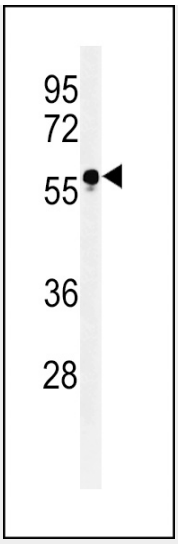
## FUT6 Antibody (Center) - Protocols

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

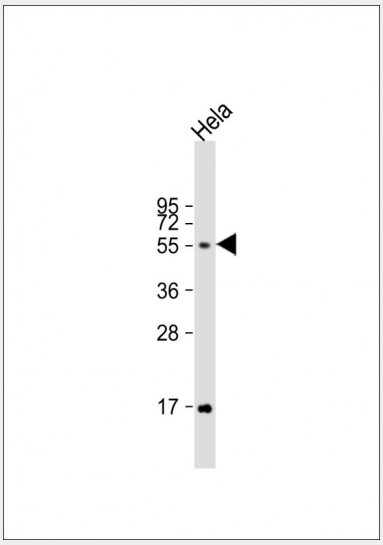
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## FUT6 Antibody (Center) - Images

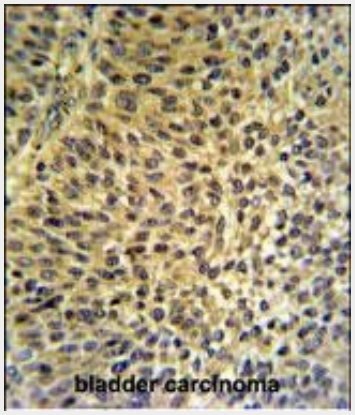
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Western blot analysis of FUT6 Antibody (Center) (Cat. #AP4925c) in HL-60 cell line lysates (35ug/lane). FUT6 (arrow) was detected using the purified Pab.



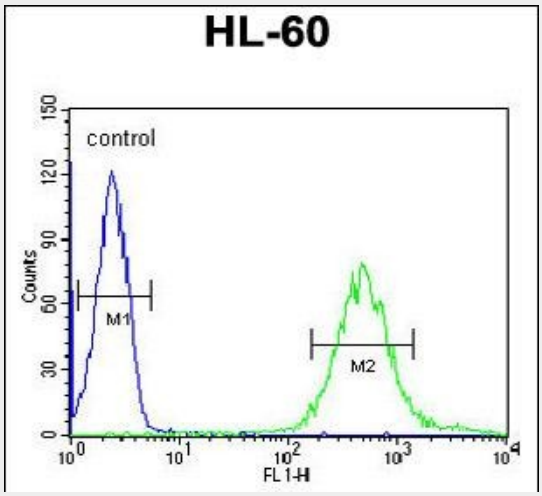

Anti-FUT6 Antibody (Center) at 1:1000 dilution + Hela whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 42 kDa Blocking/Dilution buffer: 5% NFDM/TBST.




FUT6 Antibody (Center) (Cat. #AP4925c) IHC analysis in formalin fixed and paraffin embedded bladder carcinoma followed by peroxidase conjugation of the secondary antibody and DAB

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staining. This data demonstrates the use of the FUT6 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.




FUT6 Antibody (Center) (Cat. #AP4925c) flow cytometric analysis of HL-60 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

**FUT6 Antibody (Center) - Background**

FUT6 is a Golgi stack membrane protein that is involved in the creation of sialyl-Lewis X, an E-selectin ligand.

**FUT6 Antibody (Center) - References**

Norden, R., et al. Glycobiology 19(7):776-788(2009)
Higai, K., et al. Glycoconj. J. 25(3):225-235(2008)
Martinez-Duncker, I., et al. Glycobiology 14(1):13-25(2004)