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FUT6 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP4925c

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	P51993
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB23931
Calculated MW	41860
Antigen Region	102-130

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~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
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.

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: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 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

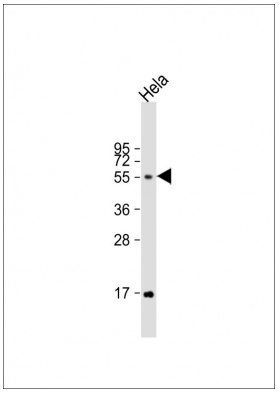
Background

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

References

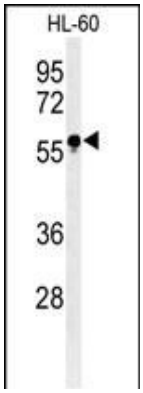
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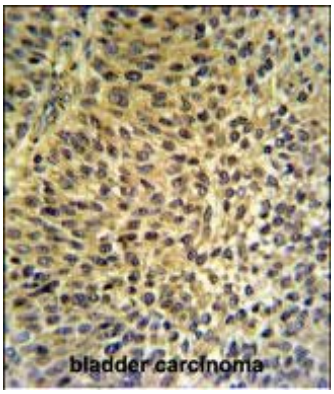
Images



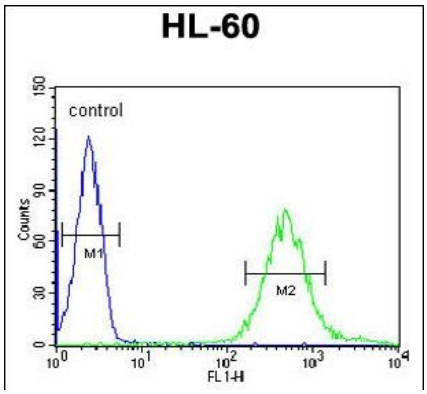
Anti-FUT6 Antibody (Center) at 1:1000 dilution + Hela whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 42 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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.





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 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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.