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FUT8 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11123c

Product Information

Application	WB, IHC-P, E
Primary Accession	Q9BYC5
Other Accession	Q6EV76, P79282, Q9WTS2, Q9N0W2, NP_835367.1, NP_835369.1
Reactivity	Human
Predicted	Mouse, Rat, Pig, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB20057
Calculated MW	66516
Antigen Region	329-357

Additional Information

Gene ID	2530
Other Names	Alpha-(1, 6)-fucosyltransferase, Alpha1-6FucT, Fucosyltransferase 8, GDP-L-Fuc:N-acetyl-beta-D-glucosaminide alpha1, 6-fucosyltransferase, GDP-fucose--glycoprotein fucosyltransferase, Glycoprotein 6-alpha-L-fucosyltransferase, FUT8
Target/Specificity	This FUT8 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 329-357 amino acids from the Central region of human FUT8.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
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	FUT8 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	FUT8

Function	Catalyzes the addition of fucose in alpha 1-6 linkage to the first GlcNAc residue, next to the peptide chains in N-glycans (PubMed:17172260, PubMed:29304374, PubMed:36280670, PubMed:9133635). Fucosylates the reducing GlcNAc residue in complex-type N-glycans attached on the fragment crystallizable (Fc) of IgGs. Fully converts Fc glycoforms containing one or two terminal GlcNAc moieties (G0-GlcNAc and G0) (PubMed:36280670).
Cellular Location	Golgi apparatus, Golgi stack membrane; Single-pass type II membrane protein Note=Membrane-bound form in trans cisternae of Golgi.

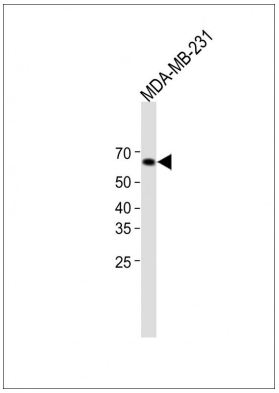
Background

This enzyme belongs to the family of fucosyltransferases. The product of this gene catalyzes the transfer of fucose from GDP-fucose to N-linked type complex glycopeptides. This enzyme is distinct from other fucosyltransferases which catalyze alpha1-2, alpha1-3, and alpha1-4 fucose addition. The expression of this gene may contribute to the malignancy of cancer cells and to their invasive and metastatic capabilities. Alternatively spliced variants encoding different isoforms have been identified.

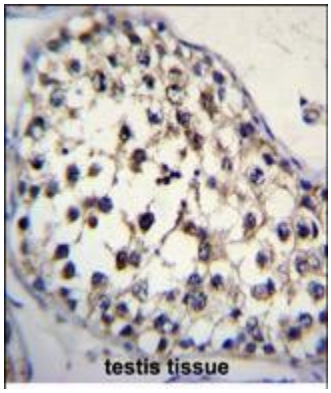
References

Rose, J. Phd, et al. Mol. Med. (2010) In press :
Wang, X., et al. J. Biochem. 145(5):643-651(2009)
Kudo, T., et al. Mol. Cancer 6, 32 (2007) :
Ihara, H., et al. Glycobiology 16(4):333-342(2006)
Ito, Y., et al. Cancer Lett. 200(2):167-172(2003)

Images

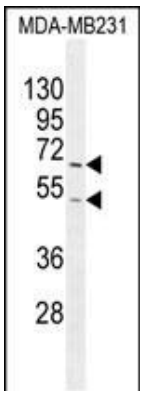


All lanes : Anti-FUT8 Antibody (Center)at 1:1000 dilution + MDA-MB-231 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size : 65kDa Blocking/Dilution buffer: 5% NFDM/TBST.



FUT8 Antibody (Center) (Cat. #AP11123c)immunohistochemistry analysis in formalin fixed and paraffin embedded human testis tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of FUT8 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

FUT8 Antibody (Center) (Cat. #AP11123c) western blot analysis in MDA-MB231 cell line lysates (35ug/lane).This



demonstrates the FUT8 antibody detected the FUT8 protein (arrow).

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