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FUT2 Rabbit pAb

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Catalog # AP54798

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q10981
Reactivity	Human
Predicted	Rat, Pig, Mouse, Rabbit, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	39017
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from Human FUT2
Epitope Specificity	231-343/343
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Golgi apparatus, Golgi stack membrane; Single-pass type II membrane protein. Note=Membrane-bound form in trans cisternae of Golgi.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Creates a soluble precursor oligosaccharide FuC-alpha ((1,2)Galbeta-) called the H antigen which is an essential substrate for the final step in the soluble A and B antigen synthesis pathway. H and Se enzymes fucosylate the same acceptor substrates but exhibit different Km values. FUT2 is expressed on the surface of several human tumor cell lines such as BEL-7404, SPC-A-1, and SGC-7901.

Additional Information

Gene ID	2524
Other Names	Galactoside alpha-(1, 2)-fucosyltransferase 2, Alpha(1, 2)FT 2, Fucosyltransferase 2, GDP-L-fucose:beta-D-galactoside 2-alpha-L-fucosyltransferase 2, SE2, Secretor blood group alpha-2-fucosyltransferase, Secretor factor, Se, Type 1 galactoside alpha-(1, 2)-fucosyltransferase FUT2, 2.4.1.69, Type 2 galactoside alpha-(1, 2)-fucosyltransferase FUT2, 2.4.1.344, FUT2 (HGNC:4013), SEC2
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

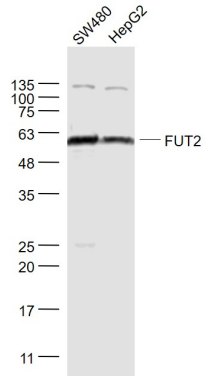
Protein Information

Name	FUT2 (HGNC:4013)
Synonyms	SEC2
Function	Catalyzes the transfer of L-fucose, from a guanosine diphosphate-beta-L-fucose, to the terminal galactose on both O- and N- linked glycans chains of cell surface glycoproteins and glycolipids and the resulting epitope regulates several processes such as cell-cell interaction including host-microbe interaction, cell surface expression and cell proliferation (PubMed:12692541, PubMed:7876235, PubMed:8018146). Preferentially fucosylates gangliosides GA1 and GM1 in the antrum, cecum and colon and in the female reproductive organs (By similarity). Fucosylated host glycoproteins or glycolipids mediate interaction with intestinal microbiota influencing its composition (PubMed:21625510, PubMed:22068912, PubMed:24733310). Creates a soluble precursor oligosaccharide FuC-alpha ((1,2)Galbeta-) called the H antigen which is an essential substrate for the final step in the soluble ABO blood group antigen synthesis pathway (PubMed:7876235).
Cellular Location	Golgi apparatus, Golgi stack membrane; Single- pass type II membrane protein. Note=Membrane-bound form in trans cisternae of Golgi
Tissue Location	Small intestine, colon and lung.

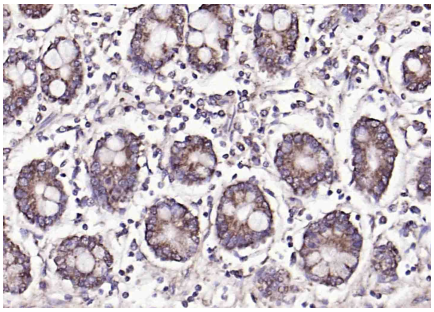
Background

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Images



Sample:
SW480(Human) Cell Lysate at 30 ug
HepG2(Human) Cell Lysate at 30 ug
Primary: Anti- FUT2 (AP54798) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 39 kD
Observed band size: 54 kD



Paraformaldehyde-fixed, paraffin embedded (Human duodenum); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Incubation with (FUT2) Polyclonal Antibody, Unconjugated (AP54798) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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