

FUT2 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP54798**Specification****FUT2 Polyclonal Antibody - Product Information**

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q10981
Reactivity	Rat, Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	39 KDa
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.
SIMILARITY	Belongs to the glycosyltransferase 11 family.
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.

FUT2 Polyclonal Antibody - 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 (http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=4013)>HGNC:4013), SEC2

Target/Specificity

Small intestine, colon and lung.

Dilution

WB~~1:1000<br \>IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>ICC~~N/A<br \>E~~N/A

Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glycerol

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.

FUT2 Polyclonal Antibody - 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.

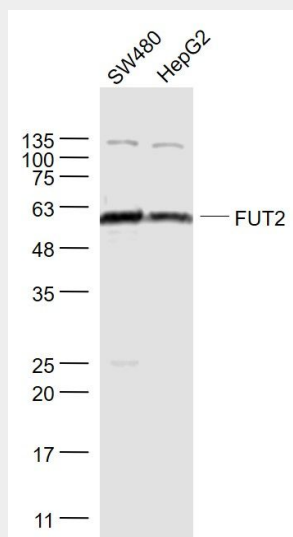
FUT2 Polyclonal Antibody - Protocols

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](#)

FUT2 Polyclonal Antibody - Images



Sample:

SW480(Human) Cell Lysate at 30 ug

HepG2(Human) Cell Lysate at 30 ug

Primary: Anti- FUT2 (bs-12258R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 39 kD

Observed band size: 54 kD