

**FUT1 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP58697**

**Specification**

**FUT1 Polyclonal Antibody - Product Information**

|                                |                                                                                                                            |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Application                    | IHC-P, IHC-F, IF                                                                                                           |
| Primary Accession              | <a href="#">P19526</a>                                                                                                     |
| Reactivity                     | Rat                                                                                                                        |
| Host                           | Rabbit                                                                                                                     |
| Clonality                      | Polyclonal                                                                                                                 |
| Calculated MW                  | 40 KDa                                                                                                                     |
| Physical State                 | Liquid                                                                                                                     |
| Immunogen                      | KLH conjugated synthetic peptide derived from human FUT1                                                                   |
| Epitope Specificity            | 291-365/365                                                                                                                |
| <b>Purity</b>                  |                                                                                                                            |
| 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. Belongs to the glycosyltransferase 11 family. |
| SIMILARITY                     |                                                                                                                            |
| 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.

**FUT1 Polyclonal Antibody - Additional Information**

**Gene ID** 2523

**Other Names**

Galactoside alpha-(1, 2)-fucosyltransferase 1, Alpha(1, 2)FT 1, Blood group H alpha 2-fucosyltransferase, Fucosyltransferase 1, GDP-L-fucose:beta-D-galactoside 2-alpha-L-fucosyltransferase 1, Type 1 galactoside alpha-(1, 2)-fucosyltransferase FUT1, 2.4.1.344, FUT1 ([http://www.genenames.org/cgi-bin/gene\\_symbol\\_report?hgnc\\_id=4012](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=4012)), H, HSC

**Dilution**

IHC-P~~N/A  
IHC-F~~N/A  
IF~~1:50~200

**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.

## **FUT1 Polyclonal Antibody - Protein Information**

**Name** FUT1 ([HGNC:4012](#))

**Synonyms** H, HSC

### **Function**

Catalyzes the transfer of L-fucose, from a guanosine diphosphate-beta-L-fucose, to the terminal galactose residue of glycoconjugates through an alpha(1,2) linkage leading to H antigen synthesis that is an intermediate substrate in the synthesis of ABO blood group antigens (PubMed:<a href="http://www.uniprot.org/citations/2118655" target="\_blank">2118655</a>). H antigen is essential for maturation of the glomerular layer of the main olfactory bulb, in cell migration and early cell-cell contacts during tumor associated angiogenesis (PubMed:<a href="http://www.uniprot.org/citations/18205178" target="\_blank">18205178</a>). Preferentially fucosylates soluble lactose and to a lesser extent fucosylates glycolipids gangliosides GA1 and GM1a (By similarity).

### **Cellular Location**

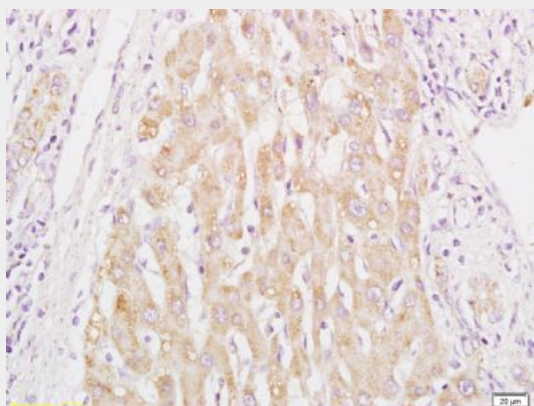
Golgi apparatus, Golgi stack membrane {ECO:0000250|UniProtKB:O09160}; Single-pass type II membrane protein {ECO:0000250|UniProtKB:O09160}. Note=Membrane-bound form in trans cisternae of Golgi. {ECO:0000250|UniProtKB:O09160}

## **FUT1 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](#)

## **FUT1 Polyclonal Antibody - Images**



Tissue/cell: human liver carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;  
Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-FUT1 Polyclonal Antibody, Unconjugated(bs-7636R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining