

Anti-FUT1 Picoband Antibody
Catalog # ABO12279**Specification**

Anti-FUT1 Picoband Antibody - Product Information

| | |
|-------------------|------------------------|
| Application | WB, IHC |
| Primary Accession | P19526 |
| Host | Rabbit |
| Reactivity | Human, Mouse, Rat |
| Clonality | Polyclonal |
| Format | Lyophilized |

Description

Rabbit IgG polyclonal antibody for Galactoside 2-alpha-L-fucosyltransferase 1(FUT1) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-FUT1 Picoband Antibody - Additional Information

Gene ID 2523

Other Names

Galactoside 2-alpha-L-fucosyltransferase 1, 2.4.1.69, Alpha(1, 2)FT 1, Blood group H alpha 2-fucosyltransferase, Fucosyltransferase 1, GDP-L-fucose:beta-D-galactoside 2-alpha-L-fucosyltransferase 1, FUT1, H, HSC

Calculated MW

41251 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat

Western blot, 0.1-0.5 µg/ml, Human, Rat

Subcellular Localization

Golgi apparatus, Golgi stack membrane; Single-pass type II membrane protein. Membrane-bound form in trans cisternae of Golgi.

Protein Name

Galactoside 2-alpha-L-fucosyltransferase 1

Contents

Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen

A synthetic peptide corresponding to a sequence at the N-terminus of human FUT1 (134-164aa EVDSRTPWRELQLHDWMSEYADLRDPFLKL), different from the related mouse and rat sequences by seven amino acids.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

Belongs to the glycosyltransferase 11 family.

Anti-FUT1 Picoband 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: [2118655](http://www.uniprot.org/citations/2118655)). 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: [18205178](http://www.uniprot.org/citations/18205178)). Preferentially fucosylates soluble lactose and to a lesser extent fucosylates glycolipids gangliosides GA1 and GM1a (By similarity).

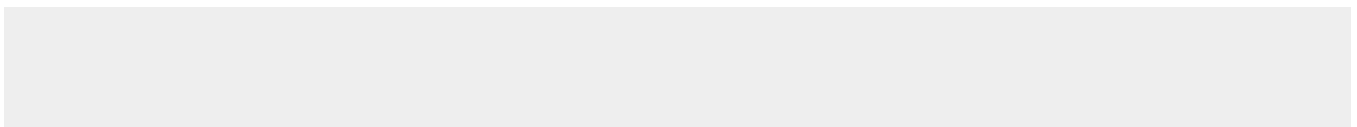
Cellular Location

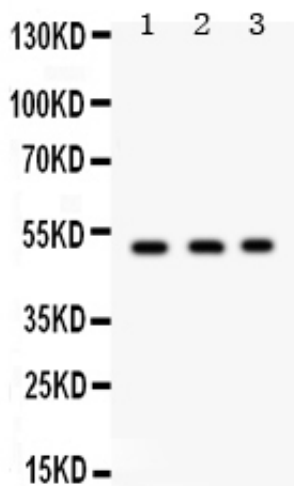
Golgi apparatus, Golgi stack membrane {ECO:0000250|UniProtKB:O09160}; Single-pass type II membrane protein {ECO:0000250|UniProtKB:O09160}. Note=Membrane-bound form in trans cisternae of Golgi. {ECO:0000250|UniProtKB:O09160}

Anti-FUT1 Picoband Antibody - Protocols

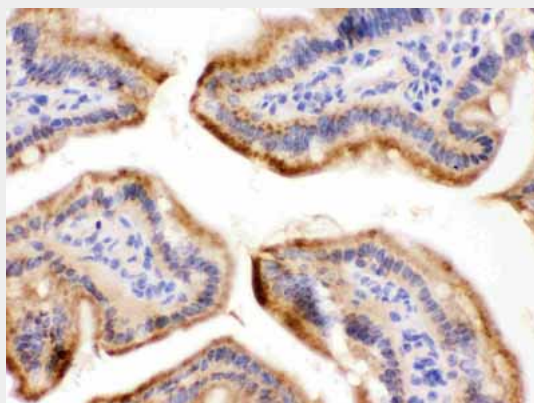
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

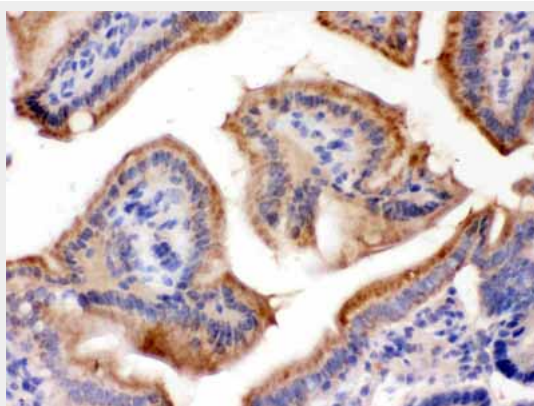
Anti-FUT1 Picoband Antibody - Images



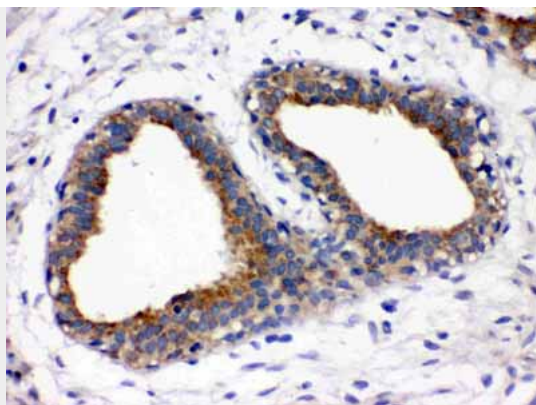
Anti- FUT1 Picoband antibody, ABO12279, Western blotting All lanes: Anti FUT1 (ABO12279) at 0.5ug/ml
Lane 1: Rat Kidney Tissue Lysate at 50ug
Lane 2: SW620 Whole Cell Lysate at 40ug
Lane 3: A549 Whole Cell Lysate at 40ug
Predicted bind size: 50KD
Observed bind size: 50KD



Anti- FUT1 Picoband antibody, ABO12279, IHC(P) IHC(P): Mouse Intestine Tissue



Anti- FUT1 Picoband antibody, ABO12279, IHC(P) IHC(P): Rat Intestine Tissue



Anti- FUT1 Picoband antibody, ABO12279, IHC(P)IHC(P): Human Mammary Cancer Tissue

Anti-FUT1 Picoband Antibody - Background

Galactoside 2- α -L-fucosyltransferase 1 is an enzyme that in humans is encoded by the FUT1 gene. It is mapped to 19q13.3. The protein encoded by this gene is a Golgi stack membrane protein that is involved in the creation of a precursor of the H antigen, which is required for the final step in the soluble A and B antigen synthesis pathway. This gene is one of two encoding the galactoside 2-L-fucosyltransferase enzyme. Mutations in this gene are a cause of the H-Bombay blood group.