

ARG42136 anti-FUT2 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes FUT2
Tested Reactivity	Hu
Tested Application	IHC-P, WB
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	FUT2
Species	Human
Immunogen	Synthetic peptide around the internal region of Human FUT2. (C-HVQQRLAKIQAMWE) (NP_000502.4)
Conjugation	Un-conjugated
Alternate Names	Se2; B12QTL1; EC 2.4.1.69; 1,2; Fucosyltransferase 2; SEC2; Se; Galactoside 2-alpha-L-fucosyltransferase 2; Alpha; GDP-L-fucose:beta-D-galactoside 2-alpha-L-fucosyltransferase 2; Secretor factor; Secretor blood group alpha-2-fucosyltransferase; sej; SE; SE2

Application Instructions

Application table	Application	Dilution
	IHC-P	5 µg/ml
	WB	1 - 3 µg/ml
Application Note	WB: Recommend incubate at RT for 1h. IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Human liver	
Observed Size	~ 37 kDa	

Properties

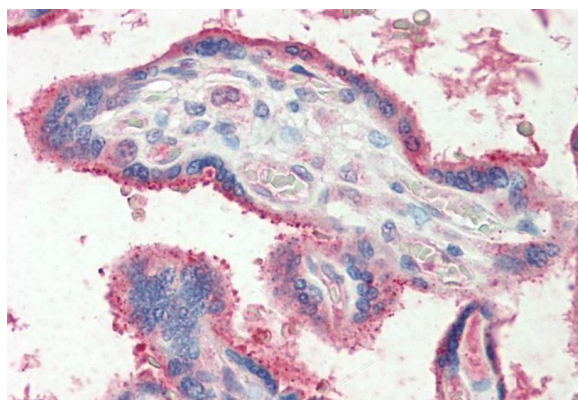
Form	Liquid
Purification	Affinity purified
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

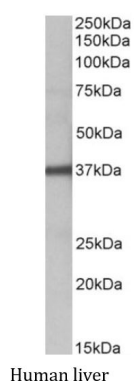
Gene Symbol	FUT2
Gene Full Name	fucosyltransferase 2 (secretor status included)
Background	The protein encoded by this gene is a Golgi stack membrane protein that is involved in the creation of a precursor of the H antigen, which is required for the final step in the soluble A and B antigen synthesis pathway. This gene is one of two encoding the galactoside 2-L-fucosyltransferase enzyme. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]
Function	Mediates the transfer of fucose to the terminal galactose on glycan chains of cell surface glycoproteins and glycolipids (PubMed:7876235). The resulting epitope plays a role in cell-cell interaction including host-microbe interaction (PubMed:12692541, PubMed:8018146). Mediates interaction with intestinal microbiota influencing its composition (PubMed:21625510, PubMed:24733310, PubMed:22068912). 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). [UniProt]
Calculated Mw	39 kDa
Cellular Localization	Golgi apparatus, Golgi stack membrane; Single-pass type II membrane protein. Note=Membrane-bound form in trans cisternae of Golgi. [UniProt]

Images



ARG42136 anti-FUT2 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human placenta tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG42136 anti-FUT2 antibody at 5 µg/ml dilution followed by AP-staining.



ARG42136 anti-FUT2 antibody WB image

Western blot: 35 µg of Human liver lysate (in RIPA buffer) stained with ARG42136 anti-FUT2 antibody at 1 µg/ml dilution and incubated at RT for 1 hour.