ARG42143
anti-POFUT2 antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes POFUT2
Tested Reactivity	Hu
Tested Application	IHC-P
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	POFUT2
Species	Human
Immunogen	Synthetic peptide around the C-terminal region of Human POFUT2. (within the following region: RFEPT WEELE LYKDG GVAII DQWIC AHARC LPTSL SAESG SGGFQ RFFCP)
Conjugation	Un-conjugated
Alternate Names	FUT13; GDP-fucose protein O-fucosyltransferase 2; C21orf80; Peptide-O-fucosyltransferase 2; O-FucT-2; EC 2.4.1.221

Application Instructions

Application table

Application	Dilution
IHC-P	Assay-dependent

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

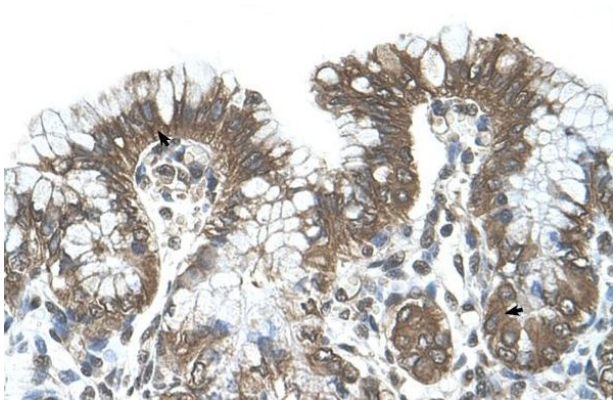
Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS, 0.09% (w/v) Sodium azide and 2% Sucrose.
Preservative	0.09% (w/v) Sodium azide
Stabilizer	2% Sucrose
Concentration	Batch dependent: 0.5 - 1 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	POFUT2
Gene Full Name	protein O-fucosyltransferase 2
Background	Fucose is typically found as a terminal modification of branched chain glycoconjugates, but it also exists in direct O-linkage to serine or threonine residues within cystine knot motifs in epidermal growth factor (EGF; MIM 131530)-like repeats or thrombospondin (THBS; see MIM 188060) type-1 repeats. POFUT2 is an O-fucosyltransferase that use THBS type-1 repeats as substrates (Luo et al., 2006 [PubMed 16464857]).[supplied by OMIM, Mar 2008]
Function	Catalyzes the reaction that attaches fucose through an O-glycosidic linkage to a conserved serine or threonine residue in the consensus sequence C1-X(2,3)-S/T-C2-X(2)-G of thrombospondin type 1 repeats where C1 and C2 are the first and second cysteines, respectively. O-fucosylates members of several protein families including the ADAMTS family, the thrombosporin (TSP) and spondin families. The O-fucosylation of TSRs is also required for restricting epithelial to mesenchymal transition (EMT), maintaining the correct patterning of mesoderm and localization of the definite endoderm (By similarity). Required for the proper secretion of ADAMTS family members such as ADAMSL1 and ADAMST13. [UniProt]
Calculated Mw	50 kDa
Cellular Localization	Endoplasmic reticulum. Golgi apparatus. Note=Mainly located in the endoplasmic reticulum. [UniProt]

Images



ARG42143 anti-POFUT2 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human stomach tissue stained with ARG42143 anti-POFUT2 antibody.