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Product datasheet for AP20571PU-N

FUT4 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	**Western Blot:** 1/500-1/1000. **Immunohistochemistry on Paraffin Sections**: 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 45-90 of Human FucT-IV.
Specificity:	This antibody detects endogenous levels of FucT-IV protein. (region surrounding Glu71)
Formulation:	Phosphate buffered saline (PBS), pH 7.2 State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.05% sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity chromatography (> 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~72 kDa
Gene Name:	fucosyltransferase 4
Database Link:	Entrez Gene 2526 Human P22083

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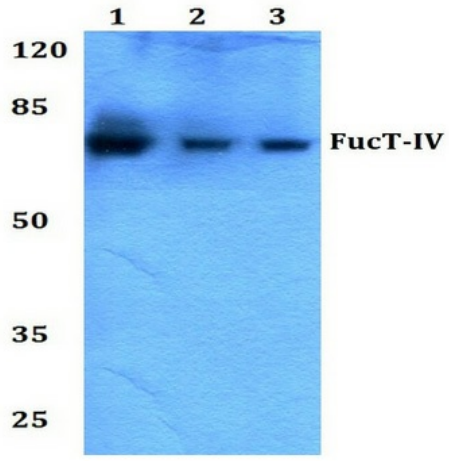
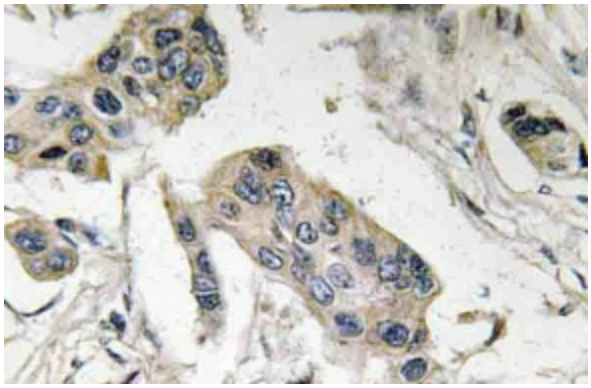
Background: Fucosyltransferases (FucTs) catalyze the covalent association of fucose to different positional linkages on sugar acceptor molecules. The carbohydrate moieties that are generated are covalently attached to cell surfaces and are necessary to ensure a surface contour that satisfies a variety of physiological roles. FucT-IV (alpha 1,3-fucosyltransferase IV), also known as FUT4, FCT3A or ELFT, is a 405 amino acid single-pass type II membrane protein that localizes to Golgi stacks. During embryogenesis, FucT-IV is highly expressed in skin, liver, kidney, muscle and small intestine where it functions to catalyze the glycosidic attachment of alpha-fucose to various molecules, such as N-acetyllactosamines. Via its catalytic activity, FucT-IV participates in the synthesis of carbohydrate molecules like the cell-adhesion antigen CD15 (also known as Lewis X), thereby playing a roll in cell cycle events such as apoptosis and cellcell binding. Overexpression of FucT-IV is implicated in epithelial cancers, suggesting a possible role for FucT-IV in carcinogenesis.

Synonyms: Fucosyltransferase IV, FUT4, ELFT, FCT3A, Fuc-TIV

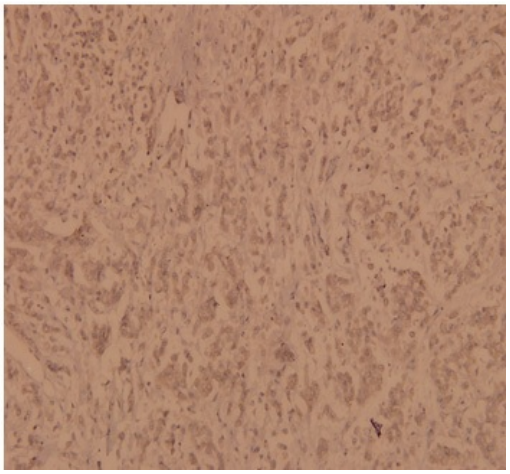
Product images:



Western blot (WB) analysis of FucT-IV antibody. at 1/500 dilution. Lane 1: HEK293T whole cell lysate. Lane 2: Raw264.7 whole cell lysate. Lane 3: H9C2 whole cell lysate.



Immunohistochemistry (IHC) analyzes of FucT-IV antibody. in paraffin-embedded human breast carcinoma tissue.



Immunohistochemistry (IHC) analyzes of FucT-IV antibody. in paraffin-embedded human breast carcinoma tissue at 1/100.