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MUC12 Rabbit pAb

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Catalog # AP56892

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9UKN1
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	558164
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human MUC12
Epitope Specificity	17-200/5478
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cell Membrane
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Membrane-associated and secretory mucins are high molecular weight glycoproteins of the glycocalyx (polysaccharide biofilm) that protects mucosal epithelium from particulate matter and microorganisms. The mucin family consists of Mucins 1-4, Mucin 5 (AC and B), Mucins 6-8, Mucins 11-13 and Mucins 15-17. A family of four related Mucin genes (MUC2, MUC5AC, MUC5B and MUC6) encode the major secreted mucins. Mucin 12 contains a predicted transmembrane domain; two extracellular cysteine-rich EGF-like domains; a coiled-coil region; and a domain consisting of serine-, threonine-, and proline-rich degenerate tandem repeats of 28 amino acids, a structural feature typical of mucins. Mucin 12 transcript (>12 kb) is present in colon, pancreas, prostate and uterus. Colorectal tumors can have low Mucin 12 transcript levels in comparison to normal colon tissues.

Additional Information

Gene ID	10071
Other Names	Mucin-12, MUC-12, Mucin-11, MUC-11, MUC12, MUC11
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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.

Protein Information

Name	MUC12
Synonyms	MUC11
Function	Involved in epithelial cell protection, adhesion modulation, and signaling. May be involved in epithelial cell growth regulation. Stimulated by both cytokine TNF and TGF-beta in intestinal epithelium.
Cellular Location	Membrane; Single-pass type I membrane protein
Tissue Location	Ubiquitous, with higher expression in colon. Down- regulated in colorectal cancer as well as in the colon of patients with ulcerative colitis (UC) and Crohn's disease (CD)

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.