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MUC1 Antibody

Rabbit mAb
Catalog # AP90712

Product Information

Application	WB, IHC, IF, FC, ICC, IP, IHF
Primary Accession	P15941
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	MUC1; CA15-3; CD227; DF3 antigen; Episialin; Epithelial membrane antigen; H23 antigen; H23AG; Krebs von den Lungen-6; MAM6; MUC1/ZD; MUC-1/SEC; Mucin-1; Pem; KL-6; MUC-1/X; Tumor-associated mucin;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	122102

Additional Information

Dilution	WB 1:1000~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200 IP 1:20 FC 1:20
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human MUC1
Description	This gene is a member of the mucin family and encodes a membrane bound, glycosylated phosphoprotein. This protein is anchored to the apical surface of many epithelia by a transmembrane domain, with the degree of glycosylation varying with cell type. The protein serves a protective function, binding to pathogens, as well as functioning in a cell signaling capacity.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

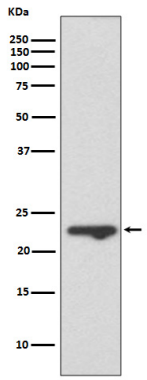
Name	MUC1
Synonyms	PUM
Function	The alpha subunit has cell adhesive properties. Can act both as an adhesion and an anti-adhesion protein. May provide a protective layer on epithelial cells against bacterial and enzyme attack.
Cellular Location	Apical cell membrane; Single-pass type I membrane protein. Note=Exclusively located in the apical domain of the plasma membrane of highly polarized epithelial cells After endocytosis, internalized and recycled to the cell membrane Located to microvilli and to the tips of long filopodial protusions [Isoform Y]: Secreted. [Mucin-1 subunit beta]: Cell membrane. Cytoplasm. Nucleus. Note=On EGF and PDGFRB stimulation, transported to the nucleus

through interaction with CTNNB1, a process which is stimulated by phosphorylation. On HRG stimulation, colocalizes with JUP/gamma-catenin at the nucleus

Tissue Location

Expressed on the apical surface of epithelial cells, especially of airway passages, breast and uterus. Also expressed in activated and unactivated T-cells. Overexpressed in epithelial tumors, such as breast or ovarian cancer and also in non-epithelial tumor cells. Isoform Y is expressed in tumor cells only

Images



Western blot analysis of MUC1 expression in T47 D cell lysate.

Image not found : 202311/AP90712-IHC.jpg

Immunohistochemical analysis of paraffin-embedded human ovarian cancer, using MUC1 Antibody.

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