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Epithelial Membrane Antigen(MUC1) mouse mAb(ABT100)

Isotype IgG									
Reactivity Human									
Applications IHC,WB Gene Name MUC1 PUM Protein Name Mucin-1 (MUC-1) (Breast carcinoma-associated antigen DF3) (Carcinoma-associated mucin) (Episialin) (H23AG) (Krebs von den Lunge (KL-6) (PEMT) (Peanut-reactive urinary mucin) (PUM) (Polymorphic epi Immunogen Synthesized peptide derived from human Epithelial Membrane Antigen(MI Specificity The antibody can specifically recognize human MUC1 protein. In western of NIH3T3 cell lysate, there shows a 122KDa band detected by the antib Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.107% sodium azi Source Mouse, Monoclonal/IgG1, Kappa Purification The antibody was affinity-purified from mouse ascites by affinity-chromato using specific immunogen. Dilution IHC-p 1:100-500, WB 1:200-1000, IF 1:100-500 Concentration 1 mg/ml Purity ≥90% Storage Stability -20°C/1 year Synonyms Mucin-1 (MUC-1;Breast carcinoma-associated antigen DF3;Carcinoma-associated mucin;Episialin;H23AG;Krebs von den Lungen-6;KL-6;PEMT;Peanut-reactive urinary mucin;PUM;Polymorphic epinucin;PUM;Tumor-associated mucin;CD antigen CD227) [Cleaved into: Mucin-1 subunit alpha (MUC1-NT;MUC1-alpha); Mucin-1 subunit beta (MUC1-beta;MUC1-CT)] Observed Band Cell Pathway Apical cell membrane; Single-pass type I membrane protein. Exclusively in the apical domain of the plasma membrane of highly polarized epithelia After endocytosis, internalized and recycled to the cell membrane. Locatemicrovilli and to the tips of long filopodial protusions; [Isoform 5]: Secreted [Isoform 7]: Secreted; [Isoform 7]: Secreted (Isoform 7]: Secreted; [Isoform 7]									
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Tissue Specificity

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.

alternative products:Additional isoforms seem to exist,caution:O-glycosylation

Function

sites are annotated in first sequence repeat only. Residues at similar position are probably glycosylated in all repeats. Experimental sites were determined in a synthetic peptide glycosylated in vitro (PubMed:7744025, PubMed:9597769).,caution:The N-terminal sequence has been shown (PubMed:11341784) to begin at position 24 or 28.,developmental stage:During fetal development, expressed at low levels in the colonic epithelium from 13 weeks of gestation.,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.,function:The beta subunit contains a C-terminal domain which is involved in cell signaling, through phosphorylations and protein-protein interactions. Modulates s

Background

This gene encodes a membrane-bound protein that is a member of the mucin family. Mucins are O-glycosylated proteins that play an essential role in forming protective mucous barriers on epithelial surfaces. These proteins also play a role in intracellular signaling. This protein is expressed on the apical surface of epithelial cells that line the mucosal surfaces of many different tissues including lung, breast stomach and pancreas. This protein is proteolytically cleaved into alpha and beta subunits that form a heterodimeric complex. The N-terminal alpha subunit functions in cell-adhesion and the C-terminal beta subunit is involved in cell signaling. Overexpression, aberrant intracellular localization, and changes in glycosylation of this protein have been associated with carcinomas. This gene is known to contain a highly polymorphic variable number tandem repeats (VNTR) domain. Alternate sp

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

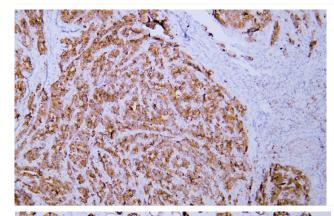
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



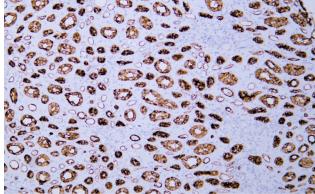




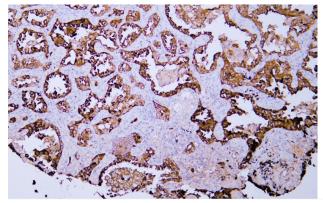
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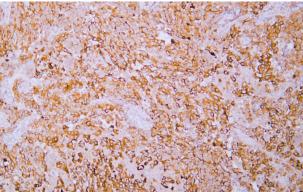
Human gastric adenocarcinoma tissue was stained with Anti-MUC1 (ABT100) Antibody



Human kidney tissue was stained with Anti-MUC1 (ABT100) Antibody



Human lung adenocarcinoma tissue was stained with Anti-MUC1 (ABT100) Antibody



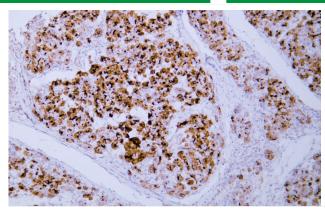
Human mesothelioma tissue was stained with Anti-MUC1 (ABT100) Antibody



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Human pancreas tissue was stained with Anti-MUC1 (ABT100) Antibody