



Mucin 1 Monoclonal Antibody

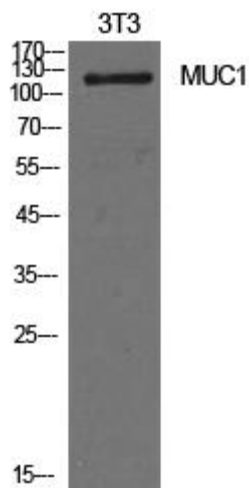
Catalog No	YP-mAb-17104
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	MUC1
Immunogen	The antiserum was produced against synthesized peptide derived from the Internal region of human MUC1. AA range:1021-1070
Specificity	Mucin 1 Monoclonal Antibody detects endogenous levels of Mucin 1 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	ADMCKD;ADMCKD1;Breast carcinoma associated antigen DF3;Breast carcinoma-associated antigen DF3;CA 15-3;CA15 3;CA15 3 antigen;CA15.3; Cancer antigen 15-3;Carcinoma associated mucin;Carcinoma-associated mucin; CD 227;CD227;DF3 antigen;EMA;Episialin;H23 antigen;H23AG;KL 6;KL-6;KL6; Krebs von den Lungen-6;MAM 6;MAM6;MCD;MCKD;MCKD1;Medullary cystic kidney disease 1 (autosomal dominant);Medullary cystic kidney disease; autosomal dominant;MUC 1;MUC-1;MUC-1/SEC;MUC-1/X;MUC1;MUC1-alpha; MUC1-beta;MUC1-CT;MUC1-NT;MUC1/ZD;MUC1_HUMAN;Mucin 1;Mucin 1 transmembrane;cell surface associated;Mucin-1 subunit beta;Peanut reactive urinary mucin;Peanut-reactive urinary mucin;PEM;PEMT;Polymorphic epithelial mucin;PUM;Tumor associated epithelial membrane antigen;Tumor associated epithelial mucin;Tumor associated mucin;Tumor-associated epithelial membrane antigen;Tumor-associated mucin;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 epi;Mucin-1
Observed Band	122kD
Calculated Molecular Weight	122kD



Cell Pathway	Apical cell membrane ; Single-pass type I membrane protein . 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 5]: Secreted.; [Isoform Y]: Secreted.; [Isoform 9]: Secreted.; [Mucin-1 subunit beta]: Cell membrane. Cytoplasm. Nucleus. 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 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.
Function	alternative products:Additional isoforms seem to exist,caution:O-glycosylation 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.



Products Images



Western Blot analysis of various cells using Mucin 1 Monoclonal Antibody