Anti-Mucin 1/MUC1 Mouse mAb

Purified Recombinant Mouse Monoclonal Antibody

Catalog # M016250

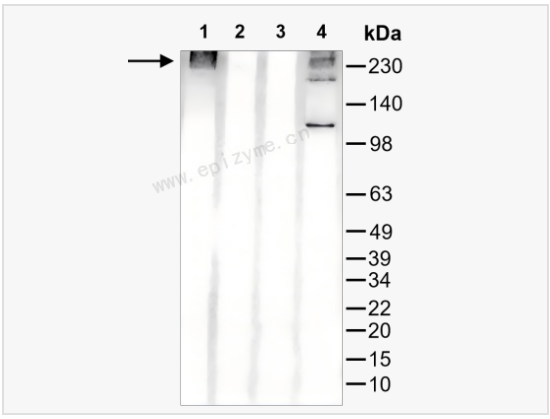
Product Information

Application	WB, ELISA
Reactivity	Human
Dilution	WB 1:500~1:2,000
Host	Mouse
Clonality	Monoclonal
Clone No.	33D19E05
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant Human milk-fat globule membrane
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Mucin 1/MUC1 Mouse mAb [33D19E05] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	CD227; PUM; MUC1; Mucin-1; MUC-1; Breast carcinoma-associated antigen DF3; Cancer antigen 15-3; Carcinoma-associated mucin; Episialin; H23AG; Krebs von den Lungen-6; PEMT; Peanut-reactive urinary mucin; Polymorphic epithelial mucin.
Calculated MW	Calculated MW: 122 kDa; Observed MW: 460 kDa
Uniprot ID	P15941
Gene ID	4582
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 splicing results in multiple transcript variants.[provided by RefSeq, Feb 2011]
Cellular Location	Apical cell membrane; Secreted; Secreted; Secreted; Cell membrane; Cytoplasm; 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

Validation Images



Western Blot - Anti-Mucin 1/MUC1 Mouse mAb [33D19E05]
All lanes: M016250 at 1:500 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 4: MCF-7 (Human breast adenocarcinoma epithelial cell) whole cell lysates
Secondary antibody: Goat Anti-Mouse IgG (H+L), HRP Conjugated (Cat. No. LF101) at 1:5,000 dilution
Lysates/proteins at 10 µg per lane.
Predicted band size: 122 kDa
Observed band size: 460 kDa
Developed using the ECL technique (Cat. No. SQ201).