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MUC1 Rabbit mAb

Catalog No.: A29038

Recombinant

Basic Information

Observed MW
150 kDa/230 kDa/400 kDa

Calculated MW
10-123 kDa

Category
Monoclonal Antibodies

Applications
WB, IP, IF/ICC, ELISA

Cross Reactivity
Human

Clone No.
ARC83502

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.

Recommended Dilutions

WB 1:10000 - 1:40000

IP
0.5 μg - 4 μg antibody for 200 μg - 400 μg extracts of whole cells

IF/ICC 1:400 - 1:4000

ELISA
Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.For high-ratio antibody dilutions (≥1:10000), a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID
4582

Swiss-Prot
P15941

Immunogen
Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms
EMA; MCD; PEM; PUM; KL-6; MAM6; MCKD; PEMT; CD227; H23AG; MCKD1; MUC-1; ADMCKD; ADTKD2; Ca15-3; ADMCKD1; CA 15-3; MUC-1/X; MUC1 /ZD; MUC-1/SEC

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Product Information

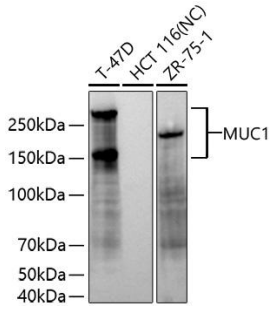
Source
Rabbit

Isotype
IgG

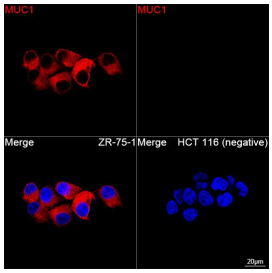
Purity
Affinity purification

Storage
Store at -20℃

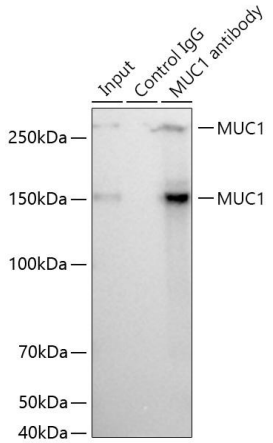
Validation Data



Western blot analysis of various lysates using MUC1 Rabbit mAb (A29038) at 1: 20000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Negative control (NC): HCT 116.
Exposure time: 20 s.



Confocal imaging of ZR-75-1 cells and HCT 116 cells (negative) using MUC1 Rabbit mAb (A29038, dilution 1:4000) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



Immunoprecipitation of MUC1 from 300 µg extracts of T-47D cells was performed using 2 µg of MUC1 Rabbit mAb (A29038). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using MUC1 Rabbit mAb (A29038) at a dilution of 1:5000.

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