

Datasheet for ABIN7543225

Recombinant anti-MUC1 antibody



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Overview

Quantity:	200 µg
Target:	MUC1
Reactivity:	Human
Host:	Mouse
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This MUC1 antibody is un-conjugated
Application:	ELISA, Flow Cytometry (FACS), Surface Plasmon Resonance (SPR)

Product Details

Purpose:	Anti-MUC1 [12D10], Mouse IgG1, kappa
Immunogen:	This antibody was raised by immunizing female Balb/c mice with MUC1 antigen.
Clone:	12D10
Isotype:	IgG1 kappa
Specificity:	This antibody is specific for the unsubstituted O-6 position of the Neu5Ac residue of MUC1. The alpha subunit of MUC1 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. The beta subunit of MUC-1 contains a C-terminal domain which is involved in cell signaling, through phosphorylations and protein-protein interactions. Modulates signaling in ERK, SRC and NF-kappa-B pathways. In activated T-cells, influences directly or indirectly the Ras/MAPK pathway. Promotes tumor progression. Regulates TP53-mediated transcription and

Product Details

determines cell fate in the genotoxic stress response. Binds, together with KLF4, the PE21 promoter element of TP53 and represses TP53 activity.

Characteristics: Original Species of Ab: Mouse
Original Format of Ab: IgG1

Purification: Protein A affinity purified

Target Details

Target: MUC1

Alternative Name: MUC1 ([MUC1 Products](#))

Background: Mucin-1, Breast carcinoma-associated antigen DF3, Cancer antigen 15-3, CA 15-3, Carcinoma-associated mucin, Episialin, H23AG, Krebs von den Lungen-6, KL-6, PEMT, Peanut-reactive urinary mucin, PUM, Polymorphic epithelial mucin, PEM, Tumor-associated epithelial membrane antigen, EMA, Tumor-associated mucin, CD227

UniProt: [P15941](#)

Pathways: [Negative Regulation of intrinsic apoptotic Signaling](#)

Application Details

Application Notes: To characterize this antibody an ELISA was preformed on MUC1 glycoproteins. Furthermore, the binding constant of this antibody was determined by surface plasmon resonance on MUC1 glycoprotein using the mouse version of this antibody. Finally, human breast cancer cells (T-47D), human lung adenocarcinoma cells (Calu-3), human mucoepidermoid carcinoma cells (H292), and human lung adenocarcinoma epithelial cells were used for flow cytometry with the murine version of this antibody (Naito et al, 2017, pmid:30023556).

Restrictions: For Research Use only

Handling

Concentration: 1 mg/mL

Buffer: PBS with 0.02 % Proclin 300.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Storage:	4 °C,-20 °C
Storage Comment:	Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.