

Datasheet for ABIN6937942

Recombinant anti-MUC1 antibody



[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	MUC1
Reactivity:	Human
Host:	Rabbit
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This MUC1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Formalin-fixed Sections) (IHC (f)), Coating (Coat)

Product Details

Immunogen:	Human milk-fat globule membranes (HMFGM)
Clone:	MUC1-2818R
Isotype:	IgG
Specificity:	This MAb reacts with MUC1. The dominant epitope of this MAb has not yet been determined. MUC1 is a large cell surface mucin glycoprotein expressed by most glandular and ductal epithelial cells and some hematopoietic cell lineages. It is expressed on most secretory epithelium, including mammary gland and some hematopoietic cells. It is expressed abundantly in lactating mammary glands and over expressed abundantly in 90 % breast carcinomas and metastases. Transgenic MUC1 has been shown to associate with all four c-erbB receptors and localize with c-erbB1 (EGFR) in lactating glands. The MUC1 gene contains seven exons and

Product Details

produces several different alternatively spliced variants. The major expressed form of MUC1 uses all seven exons and is a type 1 transmembrane protein with a large extracellular tandem repeat domain. The tandem repeat domain is highly O glycosylated and alterations in glycosylation have been shown in epithelial cancer cells. Antibody to EMA is useful as a pan-epithelial marker for detecting early metastatic loci of carcinoma in bone marrow or liver.

Cross-Reactivity (Details):	Human. Mouse.
Purification:	1.0mg/ml of Ab purified from Bioreactor by Protein A/G.

Target Details

Target:	MUC1
Alternative Name:	MUC1 (MUC1 Products)
Background:	Breast carcinoma-associated antigen DF3, CA15-3, H23AG, KL-6, MAM6, Mucin 1 cell surface associated, , Peanut-reactive urinary mucin, PEM, PEMT, Polymorphic epithelial mucin, Tumor-associated epithelial membrane antigen,MUC1 / CA15-3 / EMA / CD227 (Epithelial Marker) Cellular localisation: Cytoplasmic and cell surface
Molecular Weight:	265-400kDa
Gene ID:	4582, 89603
UniProt:	P15941
Pathways:	Negative Regulation of intrinsic apoptotic Signaling

Application Details

Application Notes:	Known_Application: Western Blot (1-2 µg/mL), ELISA (For coating use Ab at 2-5 µg/mL, order Ab without BSA) (Very good capturing Ab), Immunohistochemistry (Formalin-fixed) (0.25-0.5 µg/mL for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10 mM Tris with 1 mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes), Optimal dilution for a specific application should be determined. Positive_Control: MCF-7 or MDA-231 cells. Breast, colon, ovarian, endometrial carcinoma.
Restrictions:	For Research Use only

Handling

Concentration:	1.0 mg/mL
----------------	-----------

Handling

Buffer:	Prepared in 10 mM PBS, WITHOUT BSA and Azide.
Preservative:	Azide free
Storage:	-20 °C,-80 °C
Storage Comment:	Antibody without azide store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous.
Expiry Date:	24 months