

Datasheet for ABIN2776818

anti-MUC1 antibody (Middle Region)[Go to Product page](#)**3** Images

Overview

Quantity:	100 µL
Target:	MUC1
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Cow, Dog, Pig, Rabbit, Goat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MUC1 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human MUC1
Sequence:	ASSTPGGEKE TSATQRSSVP SSTEKNAFNS SLEDPSTDYY QELQRDISEM
Predicted Reactivity:	Cow: 79%, Dog: 79%, Goat: 79%, Human: 100%, Mouse: 86%, Pig: 83%, Rabbit: 86%, Rat: 93%
Characteristics:	This is a rabbit polyclonal antibody against MUC1. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	MUC1
Alternative Name:	MUC1 (MUC1 Products)

Target Details

Background:	MUC1 is a membrane bound, glycosylated phosphoprotein. The protein is anchored to the apical surface of many epithelia by a transmembrane domain, with the degree of glycosylation varying with cell type. It also includes a 20 aa variable number tandem repeat (VNTR) domain, with the number of repeats varying from 20 to 120 in different individuals. The protein serves a protective function by binding to pathogens and also functions in a cell signaling capacity. Overexpression, aberrant intracellular localization, and changes in glycosylation of this protein have been associated with carcinomas. This gene is a member of the mucin family and encodes a membrane bound, glycosylated phosphoprotein. The protein is anchored to the apical surface of many epithelia by a transmembrane domain, with the degree of glycosylation varying with cell type. It also includes a 20 aa variable number tandem repeat (VNTR) domain, with the number of repeats varying from 20 to 120 in different individuals. The protein serves a protective function by binding to pathogens and also functions in a cell signaling capacity. Overexpression, aberrant intracellular localization, and changes in glycosylation of this protein have been associated with carcinomas. Multiple alternatively spliced transcript variants that encode different isoforms of this gene have been reported, but the full-length nature of only some has been determined. Alias Symbols: CD227, EMA, H23AG, MAM6, PEM, PEMT, PUM, KL-6, MUC-1, MUC-1/X, MUC1/ZD, MUC-1/SEC Protein Interaction Partner: UBC, PPARG, IPO5, NUP62, EGFR, ABL1, SRC, JUN, TP53, TBP, IKBKG, TNFRSF1A, IKBKB, GRB2, ESR1, GALNT15, GALNT12, GALNT10, OSGEP, GSK3B, GALNT2, GALNT1, CTNND1, SIGLEC1, ERBB4, ERBB3, SOS1, PRKCD, ZAP70, APC, JUP, LYN, ERBB2, LCK, CTNNB1, GALNT4, BAX, CDKN1 Protein Size: 159
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Molecular Weight:	14 kDa
Gene ID:	4582
NCBI Accession:	NM_001044392 , NP_001037857
UniProt:	Q7Z550
Pathways:	Negative Regulation of intrinsic apoptotic Signaling

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 159 AA
Restrictions:	For Research Use only

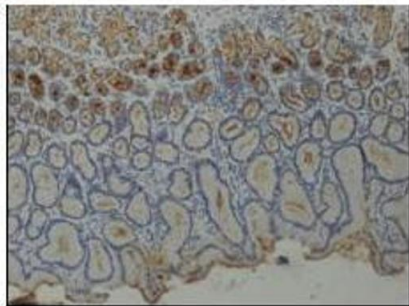
Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



MUC1



Brown: MUC1 Blue: Nucleus

See IHC 2 Data and Customer Feedback for more information

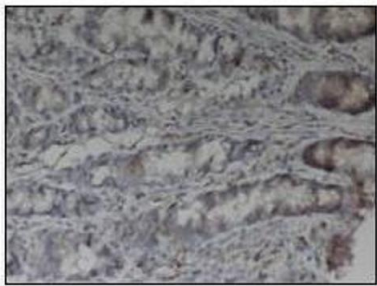
Western Blotting

Image 1. WB Suggested Anti-MUC1 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:62500 Positive Control: Hela cell lysate MUC1 is strongly supported by BioGPS gene expression data to be expressed in Human HeLa cells

Immunohistochemistry

Image 2. Sample Type : Human stomach Primary Antibody Dilution : 1:200 Secondary Antibody : Anti-rabbit-HRP Secondary Antibody Dilution : 1:1000 Color/Signal Descriptions : Brown: MUC1 Blue: Nucleus Gene Name : MUC1 Submitted by : Dr. Sara Linden, University of Gothenburg

MUC1



Brown: MUC1 Blue: Nucleus

See IHC 1 Data and Customer Feedback for more Information

Immunohistochemistry

Image 3. Sample Type : Pig stomach Primary Antibody Dilution : 1:200 Secondary Antibody : Anti-rabbit-HRP Secondary Antibody Dilution : 1:1000 Color/Signal Descriptions : Brown: MUC1 Blue: Nucleus Gene Name : MUC1 Submitted by : Dr. Sara Linden, University of Gothenburg