

Datasheet for ABIN7599672 anti-MUC1 antibody (AA 1063-1131)



Overview

Quantity:	100 μg
Target:	MUC1
Binding Specificity:	AA 1063-1131
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MUC1 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Western Blotting (WB), ELISA, Flow Cytometry (FACS)

Product Details

Purpose:	Anti-MUC1 Antibody Picoband®
Immunogen:	E.coli-derived human MUC1 recombinant protein (Position: T1063-R1131).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-MUC1 Antibody Picoband® (ABIN7599672). Tested in ELISA, Flow Cytometry, IHC, WB applications. This antibody reacts with Human, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	MUC1
Alternative Name:	MUC1 (MUC1 Products)
Background:	Synonyms: Mucin-1, MUC-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, Mucin-1 subunit alpha,
	MUC1-NT, MUC1-alpha, Mucin-1 subunit beta, MUC1-beta, MUC1-CT, MUC1, PUM
	Tissue Specificity: 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.
	Background: Mucin 1, cell surface associated (MUC1) or polymorphic epithelial mucin (PEM) is
	a mucin encoded by the MUC1 gene in humans. This gene encodes a membrane-bound protei
	that is a member of the mucin family. Mucins are O-glycosylated proteins that play an essentia
	role in forming protective mucous barriers on epithelial surfaces. It is mapped to 1q22. Mucin
	is a transmembrane mucin normally expressed on the apical borders of secretory epithelial
	cells. Overexpression of Mucin 1 is often associated with colon, breast, ovarian, lung and
	pancreatic cancers. The protein serves a protective function by binding to pathogens and also
	functions in a cell signaling capacity. Mucin 1 stimulated ESR1-mediated transcription and
	contributed to estradiol-mediated growth and survival of breast cancer cells. This gene also ca
	suppress pulmonary innate immunity, and its antiinflammatory activity may play an important
	modulatory role during microbial infection.
Molecular Weight:	122 kDa
Gene ID:	4582
UniProt:	P15941
Pathways:	Negative Regulation of intrinsic apoptotic Signaling
Application Details	
Application Notes:	Western blot, 0.25-0.5 μg/mL, Rat
	Immunohistochemistry (Paraffin-embedded Section), 2-5 µg/mL, Human
	Flow Cytometry (Fixed), 1-3 μg/1x10 ⁶ cells, Human
	ELISA, 0.1-0.5 μg/mL, -
	1. Gendler SJ, Lancaster CA, Taylor-Papadimitriou J, Duhig T, Peat N, Burchell J, Pemberton L,

Application Details

Lalani EN, Wilson D (September 1990). "Molecular cloning and expression of human tumorassociated polymorphic epithelial mucin". J. Biol. Chem. 265 (25): 15286-93. 2. Wei, X., Xu, H., Kufe, D. MUC1 oncoprotein stabilizes and activates estrogen receptor alpha. Molec. Cell 21: 295-305, 2006. 3. Lu, W., Hisatsune, A., Koga, T., Kato, K., Kuwahara, I., Lillehoj, E. P., Chen, W., Cross, A. S., Gendler, S. J., Gewirtz, A. T., Kim, K. C. Cutting edge: enhanced pulmonary clearance of Pseudomonas aeruginosa by Muc1 knockout mice. J. Immun. 176: 3890-3894, 2006.

Restrictions:

For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 μg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.01 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.