

Datasheet for ABIN3043421
anti-MUC1 antibody (AA 935-1097)



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Overview

Quantity:	100 µg
Target:	MUC1
Binding Specificity:	AA 935-1097
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MUC1 antibody is un-conjugated
Application:	Immunohistochemistry (IHC)

Product Details

Purpose:	Anti-MUC1 Antibody
Immunogen:	E.coli-derived human MUC1 recombinant protein (Position: R945-G1097). Human MUC1 shares 56% amino acid (aa) sequence identity with mouse MUC1.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-MUC1 Antibody Picoband® (ABIN3043421). Tested in IHC applications. This antibody reacts with Human.
Purification:	Immunogen affinity purified.

Target Details

Target:	MUC1
Alternative Name:	MUC1 (MUC1 Products)
Background:	Synonyms: ADMCKD antibody,ADMCKD1 antibody,Breast carcinoma associated antigen DF3 antibody,Breast carcinoma-associated antigen DF3 antibody,CA 15-3 antibody,CA15 3 antibody,CA15 3 antigen antibody,CA15.3 antibody,Cancer antigen 15-3 antibody,Carcinoma associated mucin antibody,Carcinoma-associated mucin antibody,CD 227 antibody,CD227 antibody,DF3 antigen antibody,EMA antibody,Episialin antibody,H23 antigen antibody,H23AG antibody,KL 6 antibody,KL-6 antibody,KL6 antibody,Krebs von den Lungen-6 antibody,MAM 6 antibody,MAM6 antibody,MCD antibody,MCKD antibody,MCKD1 antibody,Medullary cystic kidney disease 1 (autosomal dominant) antibody,MUC 1 antibody,MUC-1 antibody,MUC-1/SEC antibody,MUC-1/X antibody,MUC1 antibody,MUC1-alpha antibody,MUC1-beta antibody,MUC1-CT antibody,MUC1-NT antibody,MUC1/ZD antibody,MUC1_HUMAN antibody,Mucin 1 antibody,Mucin 1 transmembrane antibody,Mucin 1, cell surface associated antibody,Mucin-1 subunit beta antibody,Peanut reactive urinary mucin antibody,Peanut-reactive urinary mucin antibody,PEM antibody,PEMT antibody,Polymorphic epithelial mucin antibody,PUM antibody,Tumor associated epithelial membrane antigen antibody,Tumor associated epithelial mucin antibody,Tumor associated mucin antibody,Tumor-associated epithelial membrane antigen antibody,Tumor-associated mucin antibody 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 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. It is mapped to 1q22. Mucin 1 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 can suppress pulmonary innate immunity, and its antiinflammatory activity may play an important modulatory role during microbial infection.
Molecular Weight:	47 kDa

Target Details

Gene ID:	4582
UniProt:	P15941
Pathways:	Negative Regulation of intrinsic apoptotic Signaling

Application Details

Application Notes:	Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Human 1. Gendler SJ, Lancaster CA, Taylor-Papadimitriou J, Duhig T, Peat N, Burchell J, Pemberton L, Lalani EN, Wilson D (September 1990). "Molecular cloning and expression of human tumor-associated 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.
Comment:	Antibody can be supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

Handling

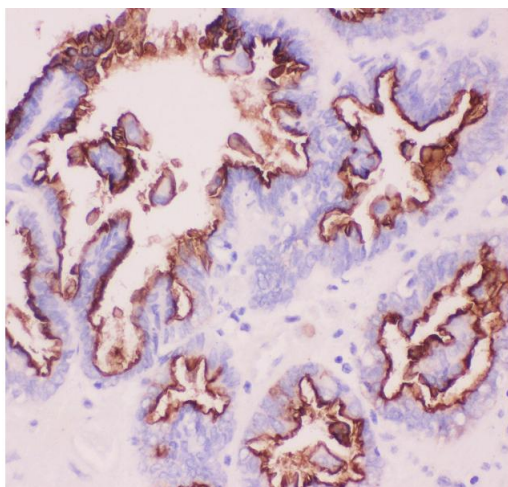
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
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.

Publications

- Product cited in:
- Li, Zhou, Wei, Chen, Geng, Zheng, Chai, Li, Jiang: "miR-144 and targets, c-fos and cyclooxygenase-2 (COX2), modulate synthesis of PGE2 in the amnion during pregnancy and labor." in: **Scientific reports**, Vol. 6, pp. 27914, (2018) ([PubMed](#)).
- Wang, Yuan, Wang, Yang, Chen, Liu, Song, Feng, Tan, Jia: "Anti-inflammatory Effects of Phyllanthus emblica L on Benzopyrene-Induced Precancerous Lung Lesion by Regulating the IL-1 β /miR-101/Lin28B Signaling Pathway." in: **Integrative cancer therapies**, Vol. 16, Issue 4, pp. 505-515, (2018) ([PubMed](#)).
- Wang, Duan, Wu, Min, Huang, Luo, He: "Effect of cyclooxygenase-2 inhibition on the development of post-traumatic stress disorder in rats." in: **Molecular medicine reports**, Vol. 17, Issue 4, pp. 4925-4932, (2018) ([PubMed](#)).
- Sun, Xue, Xue, Ren, Wu, Wang: "Acetylpuerarin protects against OGD-induced cell injury in BV2 microglia by inhibiting HMGB1 release." in: **Die Pharmazie**, Vol. 73, Issue 2, pp. 92-97, (2018) ([PubMed](#)).
- Liu, Jia, Chong, Jiang, Yang, Li, Ma, Sun, Zhou: "Effects of oral cimetidine on the reproductive system of male rats." in: **Experimental and therapeutic medicine**, Vol. 15, Issue 6, pp. 4643-4650, (2018) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)

Images



Immunohistochemistry

Image 1. Anti-MUC1 Picoband antibody, IHC(P): Human Ovary Cancer Tissue