

Anti-MUC1 Picoband Antibody

Catalog # ABO11818

Product Information

Application	WB, IHC-P, IHC-F
Primary Accession	Q02496
Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Mucin-1(MUC1) detection. Tested with WB, IHC-P, IHC-F in Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	17829
Other Names	Mucin-1, MUC-1, Episialin, CD227, Mucin-1 subunit alpha, MUC1-NT, MUC1-alpha, Mucin-1 subunit beta, MUC1-beta, MUC1-CT, Muc1, Muc-1
Calculated MW	64539
Application Details	Immunohistochemistry(Frozen Section), 0.5-1 μ g/ml, Mouse, Rat, - Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Mouse, Rat, By Heat Western blot, 0.1-0.5 μ g/ml, Rat, Mouse
Subcellular Localization	Apical cell membrane; Single-pass type I membrane protein. Exclusively located in the apical domain of the plasma membrane of highly polarized epithelial cells. After endocytosis, internalized and recycled to the cell membrane. Located to microvilli and to the tips of long filopodial protusions (By similarity). .
Tissue Specificity	Expressed in a variety of epithelial tissues.
Source	Eukaryota
Protein Name	Mucin-1
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	E.coli-derived mouse MUC1 recombinant protein (Position: S474-L630). Mouse MUC1 shares 87% and amino acid (aa) sequence identity with human MUC1.
Purification	Immunogen affinity purified.

Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Sequence Similarities	Contains 1 SEA domain.

Protein Information

Name	Muc1
Synonyms	Muc-1
Function	The alpha subunit 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.
Cellular Location	Apical cell membrane; Single-pass type I membrane protein. Note=Exclusively located in the apical domain of the plasma membrane of highly polarized epithelial cells. After endocytosis, internalized and recycled to the cell membrane. Located to microvilli and to the tips of long filopodial protrusions (By similarity)
Tissue Location	Expressed in a variety of epithelial tissues.

Background

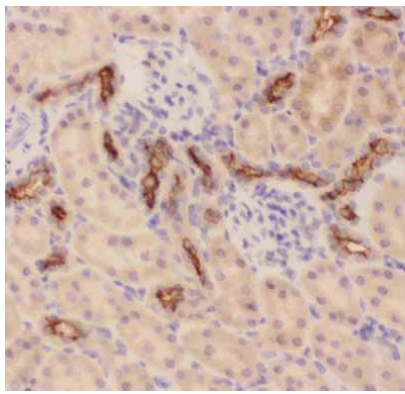
Mucin 1, cell surface associated (MUC1) or polymorphic epithelial mucin (PEM) is a mucin encoded by the MUC1 gene in humans. This gene encodes a membrane-bound protein that is a member of the mucin family. Mucins are O-glycosylated proteins that play an essential role in forming protective mucous barriers 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.

Images

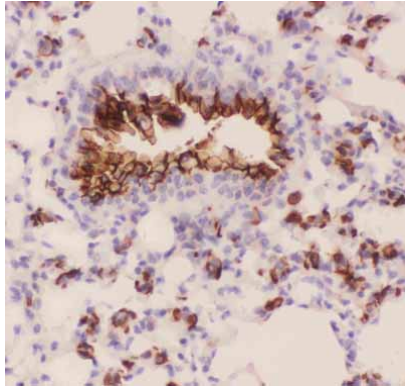


Anti-MUC1 Picoband antibody, ABO11818-1.jpg All lanes:
Anti MUC1 (ABO11818) at 0.5ug/ml WB: RH35 Whole Cell
Lysate at 40ug Predicted bind size: 122KD Observed bind
size: 122KD

Anti-MUC1 Picoband antibody, ABO11818-2.JPG IHC(P):
Rat Kidney Tissue



Anti-MUC1 Picoband antibody, ABO11818-3.JPGIHC(P):
Mouse Lung Tissue



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.