

Rabbit MUC2 Polyclonal Antibody | anti-MUC2 antibody

Anti-MUC2 antibody

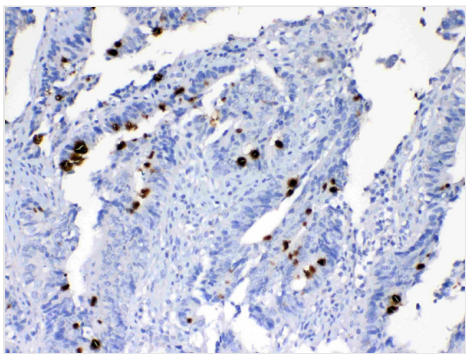
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA124629	Rabbit	Human, Mouse, Rat No cross reactivity with other proteins.	Immunohistochemistry

PRODUCT SYNONYMS

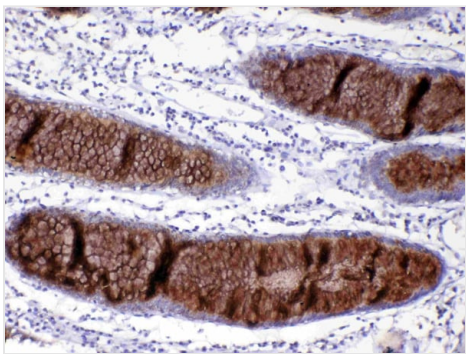
MUC2; Polyclonal Antibody; Anti-MUC2 antibody; Mucin-2; MUC-2; Intestinal mucin-2; SMUC; anti-MUC2 antibody

PRODUCT SPECIFICATIONS

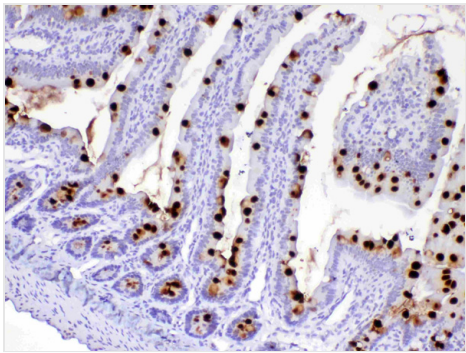
Host	Rabbit
Reactivity	Human, Mouse, Rat No cross reactivity with other proteins.
Clonality	Polyclonal
Form/Format	Lyophilized
Sequence Length	5,179
Applicable Applications for anti-MUC2 antibody	IHC (Immunohistochemistry)
Immunogen	A synthetic peptide corresponding to a sequence of human MUC2 (DDFKTASGLVEATGAGFANTWKAQSTCHDKLDWLDD).
Subcellular Localization	Secreted. In the intestine, secreted into the inner and outer mucus layers.
Tissue Specificity	Colon, small intestine, colonic tumors, bronchus, cervix and gall bladder.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Contents	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Na ₃ .
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



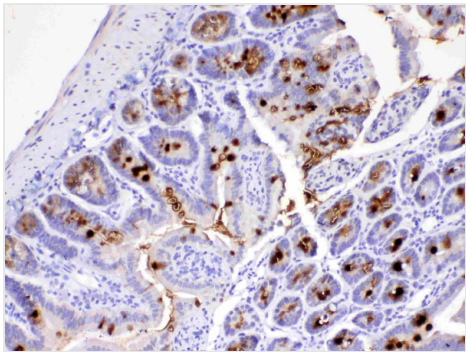
IHC (Immunohistochemistry)
Figure 4. IHC analysis of MUC2 using anti-MUC2 antibody (AAA124629).MUC2 was detected in paraffin-embedded section of human rectal cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-MUC2 Antibody (AAA124629) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)
Figure 3. IHC analysis of MUC2 using anti-MUC2 antibody (AAA124629).MUC2 was detected in paraffin-embedded section of human rectal cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-MUC2 Antibody (AAA124629) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)
Figure 2. IHC analysis of MUC2 using anti-MUC2 antibody (AAA124629).MUC2 was detected in paraffin-embedded section of rat small intestine tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-MUC2 Antibody (AAA124629) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)
Figure 1. IHC analysis of MUC2 using anti-MUC2 antibody (AAA124629).MUC2 was detected in paraffin-embedded section of mouse small intestine tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-MUC2 Antibody (AAA124629) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-MUC2 antibody	Description: Mucin 2, also known as MUC2, is a protein that in humans is encoded by the MUC2 gene. This gene encodes a member of the mucin protein family. It is mapped to 11p15.5. Mucin 2 is particularly prominent in the gut where it is secreted from goblet cells in the epithelial lining into the lumen of the large intestine. There, mucin 2, along with small amounts of related-mucin proteins, polymerizes into a gel of which 80% by weight is oligosaccharide side-chains that are added as post-translational modifications to the mucin proteins. This gel provides an insoluble mucous barrier that serves to protect the intestinal epithelium. The primary function of the MUC2 gene product is to provide a protective barrier between the epithelial surfaces and the gut lumen. There is decreased expression of MUC2 in colonic cancer and defective polymerization of secreted mucin in ulcerative colitis. Protein Function: Coats the epithelia of the intestines, airways, and other mucus membrane-containing organs. Thought to provide a protective, lubricating barrier against particles and infectious agents at mucosal surfaces. Major constituent of both the inner and outer mucus layers of the colon and may play a role in excluding bacteria from the inner mucus layer.
Product Categories/Family for anti-MUC2 antibody	Tags & Cell Markers; Cell Type Markers; Tumor Associated; Signal Transduction; Cytoskeleton/ECM; Extracellular Matrix; ECM Proteins; muc; Cancer; Invasion/Microenvironment; Tumor Immunology; tumor-associated antigens

NCBI AND UNIPROT INFORMATION

NCBI GI #	2506877
NCBI GeneID	4583
UniProt Accession #	Q02817; Q14878
Molecular Weight	540,300 Da
NCBI Official Full Name	Mucin-2
NCBI Official Synonym Full Names	mucin 2, oligomeric mucus/gel-forming
NCBI Official Symbol	MUC2
NCBI Official Synonym Symbols	MLP; SMUC; MUC-2
NCBI Protein Information	mucin-2
UniProt Protein Name	Mucin-2
UniProt Gene Name	MUC2
UniProt Synonym Gene Names	SMUC; MUC-2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/muc2-antibody-immunohistochemistry-elisa/124629>