

Anti-MUC3 Picoband Antibody
Catalog # ABO12640**Specification**

Anti-MUC3 Picoband Antibody - Product Information

Application	WB
Primary Accession	Q9H195
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Mucin-3A/Mucin-3B(MUC3A/MUC3B) detection. Tested with WB in Human.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-MUC3 Picoband Antibody - Additional Information**Other Names**

Mucin-3B, MUC-3B, Intestinal mucin-3B, MUC3B (HGNC:13384)

Calculated MW

131402 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Human

Subcellular Localization

Membrane ; Single-pass membrane protein .

Tissue Specificity

Fetal and adult small intestine and fetal and adult colon. .

Protein Name

Mucin-3A/Mucin-3B

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of human MUC3 (DLNDNTSQAYRDFNKTFWNQMQKIFADMQGFTFK).

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.

Anti-MUC3 Picoband Antibody - Protein Information

Name MUC3B ([HGNC:13384](#))

Function

Major glycoprotein component of a variety of mucus gels. Thought to provide a protective, lubricating barrier against particles and infectious agents at mucosal surfaces (By similarity).

Cellular Location

Membrane; Single-pass membrane protein

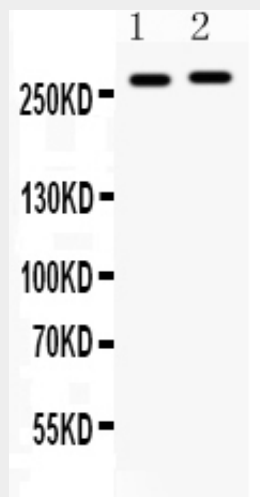
Tissue Location

Fetal and adult small intestine and fetal and adult colon.

Anti-MUC3 Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-MUC3 Picoband Antibody - Images

Western blot analysis of MUC3 expression in SW620 whole cell lysates (lane 1) and COLO320 whole cell lysates (lane 2). MUC3 at 266KD was detected using rabbit anti-MUC3 Antigen Affinity purified polyclonal antibody (Catalog # ABO12640) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method .

Anti-MUC3 Picoband Antibody - Background

MUC3 consists of two genes, MUC3A and MUC3B, each encoding membrane-bound mucins possessing 2 epidermal growth factor-like domains. The MUC3 gene is mapped to chromosome 7. It was showed that synthetic peptide-mediated upregulation of MUC3 dramatically inhibited adherence of enteropathogenic *E. coli* or enterohemorrhage *E. coli* serotype O157:H7 to HT-29 human intestinal epithelial cells. Peptide stimulation altered expression of a number of transcription factors, including upregulation of SP1, CREB1, and CDX2. These transcription factors bound to consensus sites in the MUC3 promoter upon peptide stimulation and likely mediated MUC3 upregulation.