

Anti-MUC3 Picoband Antibody

Catalog # ABO12640

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.

Additional Information

Other Names	Mucin-3B, MUC-3B, Intestinal mucin-3B, MUC3B (HGNC:13384)
Calculated MW	1397846
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. .
Source	Eukaryota
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 (DLNDNTSQAYRDFNKTFWNMQMKIFADMQGFTFK).
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After r ° Constitution, 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.

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.

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.

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 .

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