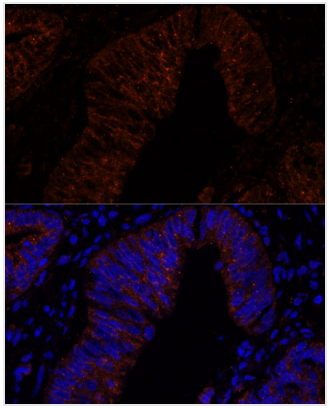
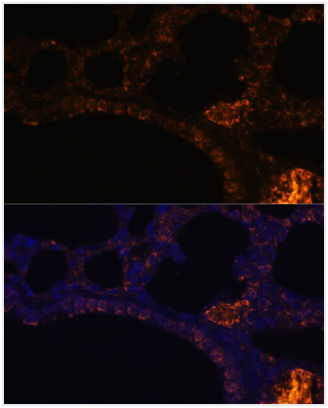
MUC2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MUC2, Polyclonal Antibody
Full Product Name	MUC2 Polyclonal Antibody
Product Gene Name	anti-MUC2 antibody
Product Synonym Names	MUC2; MLP; MUC-2; SMUC; mucin-2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH7.3
Purity/Purification	Affinity purification
Concentration	1mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	540,300 Da
Chromosome Location	Chromosome: 11; NC_000011.9 (1074875..1104417). Location: 11p15.5
OMIM	158370
3D Structure	ModBase 3D Structure for Q02817
Immunogen	A synthetic peptide of human MUC2 (NP_0024484)
Conjugation	Unconjugated
Product Categories/Family for anti-MUC2 antibody	Cancer; Immunology; Signal Transduction; Tags and Cell Markers; Polyclonal Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-MUC2 antibody	Immunofluorescence (IF)
Application Notes for anti-MUC2 antibody	IF: 1:50-1:200
Related Product Information for anti-MUC2 antibody	This gene encodes a member of the mucin protein family. Mucins are high molecular weight glycoproteins produced by many epithelial tissues. The protein encoded by this gene is secreted and forms an insoluble mucous barrier that protects the gut lumen. The protein polymerizes into a gel of which 80% is composed of oligosaccharide side chains by weight. The protein features a central domain containing tandem repeats rich in threonine and proline that varies between 50 and 115 copies in different individuals. Alternatively spliced transcript variants of this gene have been described, but their full-length nature is not known.
Other Notes	Small volumes of anti-MUC2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MUC2 purchase	MBS2565155 is an antibody targeting MUC2. Also known as MUC2 Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Immunofluorescence (IF) of anti-MUC2 antibody
Immunofluorescence analysis of Human colon carcinoma cells using MUC2 Polyclonal Antibody at dilution of 1:100. Blue: DAPI for nuclear staining.



Immunofluorescence (IF) of anti-MUC2 antibody
Immunofluorescence analysis of Rat lung cells using MUC2 Polyclonal Antibody at dilution of 1:100. Blue: DAPI for nuclear staining.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MUC2. It may not necessarily be applicable to this product.

NCBI GI #	116284392
NCBI GeneID	4583
NCBI Accession #	NP_002448.2
UniProt Primary Accession #	Q02817
UniProt Secondary Accession #	Q14878
UniProt Related Accession #	Q02817
GenBank Nucleotide #	NM_002457.2
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
UniProt Protein Name	Mucin-2
UniProt Synonym Protein Names	Intestinal mucin-2
Protein Family	Mucin
UniProt Gene Name	MUC2
UniProt Synonym Gene Names	SMUC; MUC-2
UniProt Entry Name	MUC2_HUMAN
NCBI Protein Information	mucin-2; intestinal mucin-2; mucin-like protein; mucin 2, intestinal/tracheal

UniProt Comments for MUC2	MUC2: 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. Protein type: Secreted; Extracellular matrix; Secreted, signal peptide Chromosomal Location of Human Ortholog: 11p15.5 Cellular Component: Golgi lumen Molecular Function: protein binding Biological Process: protein amino acid O-linked glycosylation; cellular protein metabolic process; O-glycan processing; maintenance of gastrointestinal epithelium; post-translational protein modification
Research Articles on MUC2	**1.** Loss of MUC2 expression is associated with recurrence in colorectal carcinoma.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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