

For Research Use Only

MUC13 Recombinant monoclonal antibody, PBS Only (Capture)

Catalog Number: 87107-2-PBS



Basic Information

Catalog Number: 87107-2-PBS	GenBank Accession Number: NM_033049.4	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 56667	CloneNo.: 252211G3
Source: Rabbit	UNIPROT ID: Q9H3R2	
Isotype: IgG	Full Name: mucin 13, cell surface associated	
Immunogen Catalog Number: EG6586	Calculated MW: 55 kDa	
	Observed MW: 120 kDa	

Applications

Tested Applications:
WB, IF/ICC, Cytometric bead array, Indirect ELISA

Species Specificity:
human

Product Information

87107-2-PBS targets MUC13 as part of a matched antibody pair:

MP02867-1: 87107-2-PBS capture and 87107-1-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

Background Information

Mucins (MUC) are highly glycosylated proteins that are abundantly expressed in mammalian epithelial cells. Mucin 13 (MUC13) is a member of the transmembrane glycoprotein mucins, which are normally expressed in the large intestine, trachea, kidney, small intestine, and gastric epithelium (PMID: 22027689). MUC13 is involved in the tumorigenesis of multiple malignancies, including pancreatic cancer, colorectal cancer, renal cancer, and lung cancer (PMID: 22027689; PMID: 31427737; PMID: 28205224; PMID: 34966453).

Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS only, pH7.3

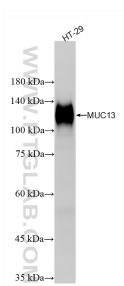
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

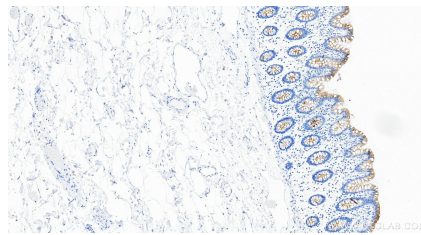
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

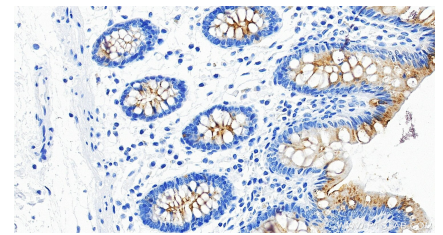
Selected Validation Data



HT-29 cells were subjected to SDS PAGE followed by western blot with 87107-2-RR (MUC13 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 87107-2-PBS in a different storage buffer formulation.



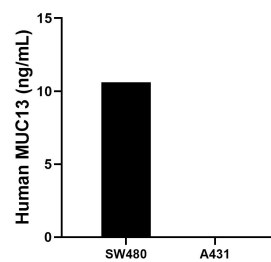
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 87107-2-RR (MUC13 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 87107-2-PBS in a different storage buffer formulation.



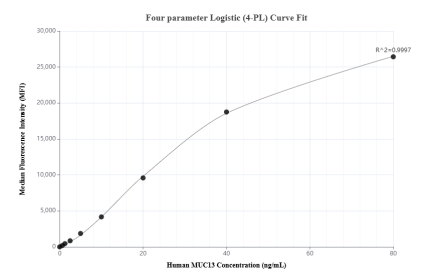
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 87107-2-RR (MUC13 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 87107-2-PBS in a different storage buffer formulation.



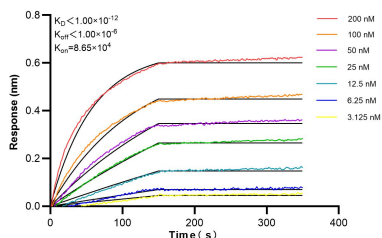
Immunofluorescent analysis of (4% PFA) fixed HT-29 cells using MUC13 antibody (87107-2-RR, Clone: 25221G3) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 87107-2-PBS in a different storage buffer formulation.



The mean MUC13 concentration was determined to be 10.6 ng/mL in SW480 cell extract based on a 1.2 mg/mL extract load. A431 cell extract were served as a negative control.



Cytometric bead array standard curve of MP02867-1, MUC13 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 87107-2-PBS. Detection antibody: 87107-1-PBS. Standard: Eg6586. Range: 0.625-80 ng/mL.



Biolayer interferometry (BLI) kinetic assays of 87107-1-RR against Human MUC13 were performed. The affinity constant is below 1 pM.