

For Research Use Only

MUC1/CA15-3 C-terminal Recombinant antibody, PBS Only

Catalog Number: 83311-4-PBS



Basic Information

Catalog Number:

83311-4-PBS

Size:

1 mg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG20366

GenBank Accession Number:

BC120975

GeneID (NCBI):

4582

UNIPROT ID:

P15941

Full Name:

mucin 1, cell surface associated

Calculated MW:

1264 aa, 123 kDa

Observed MW:

23-30 kDa

Purification Method:

Protein A purification

CloneNo.:

240190G10

Applications

Tested Applications:

WB, IHC, ELISA

Species Specificity:

human, mouse

Background Information

MUC1 is a type I transmembrane glycoprotein expressed by various epithelial cells of the female reproductive tract, lung, breast, kidney, stomach, and pancreas. MUC1 is transcribed as a large precursor gene product, and upon translation, is cleaved in the endoplasmic reticulum, yielding two subunits: the large extracellular N-terminal subunit (MUC1-N, about 120-200 kDa) and the small cytoplasmic C-terminal subunit (MUC1-C, about 23-30 kDa). Among the known mucins, MUC1 is best studied and plays crucial roles in regulating many cellular properties, including cell proliferation, apoptosis, adhesion, and invasion. MUC1 is overexpressed in a wide range of human epithelial malignancies. This antibody was raised against the C-terminal region of human MUC1, thus it recognizes the 23-30 kDa cytoplasmic MUC1.

Storage

Storage:

Store at -80°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS Only

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

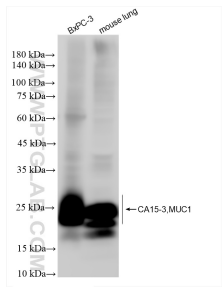
T: 4006900926

E: Proteintech-CN@ptglab.com

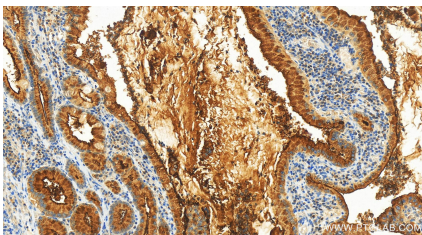
W: ptgcn.com

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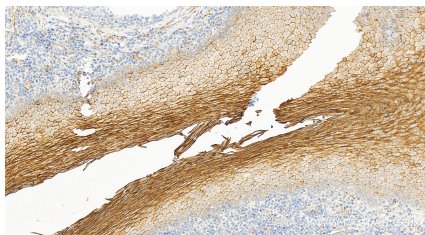
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83311-4-RR (MUC1/CA15-3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83311-4-PBS in a different storage buffer formulation.



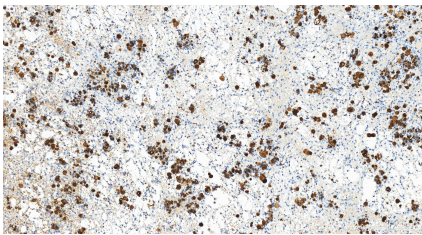
Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 83311-4-RR (MUC1/CA15-3 C-terminal antibody) at dilution of 1:800 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH9). This data was developed using the same antibody clone with 83311-4-PBS in a different storage buffer formulation.



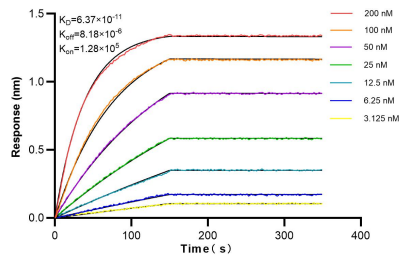
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 83311-4-RR (MUC1/CA15-3 C-terminal antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83311-4-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human rectal cancer tissue slide using 83311-4-RR (MUC1/CA15-3 C-terminal antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83311-4-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 83311-4-RR (MUC1/CA15-3 C-terminal antibody) at dilution of 1:800 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83311-4-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 83311-4-RR against Human CA15-3/MUC1 were performed. The affinity constant is 63.7 pM.