

For Research Use Only

MUC1/CA15-3 C-terminal Polyclonal antibody

Catalog Number: 23614-1-AP

Featured Product

14 Publications



Basic Information

Catalog Number:

23614-1-AP

Concentration:

750 µg/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:

23-28 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:500-1:2000

IHC: 1:50-1:500

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC, IF, CoIP

Species Specificity:

human

Cited Species:

human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: DU 145 cells, PC-3 cells, BxPC-3 cells, MCF-7 cells

IHC: human pancreas cancer tissue, human tonsillitis tissue, human breast cancer tissue, human ovary tumor tissue

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.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|--------------|-----------|-------------------|-------------|
| Xiaoyi Gao | 34632781 | ACS Sens | WB,FC |
| Xinxing Wang | 36439512 | Front Oncol | WB,IHC |
| Wenwen Wang | 33758177 | Cell Death Discov | WB |

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

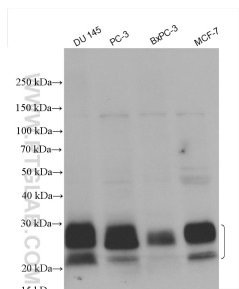
T: 4006900926

E: Proteintech-CN@ptglab.com

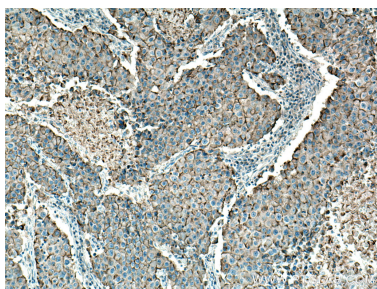
W: ptgcn.com

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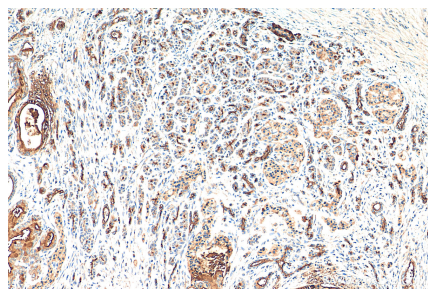
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 23614-1-AP (MUC1/CA15-3 C-terminal antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 23614-1-AP (MUC1/CA15-3 C-terminal antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 23614-1-AP (MUC1/CA15-3 C-terminal antibody) at dilution of 1:200 (under 10x lens). Proteolytic pre-treatment mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).