

For Research Use Only

# MUC1/CA15-3 C-terminal Polyclonal antibody

Catalog Number: 23614-1-AP

Featured Product

13 Publications



## Basic Information

**Catalog Number:**

23614-1-AP

**Size:**

150ul, Concentration: 750 ug/ml by Nanodrop;

**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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

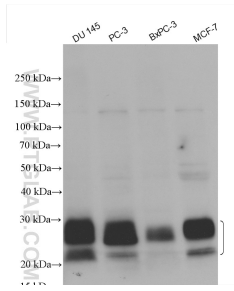
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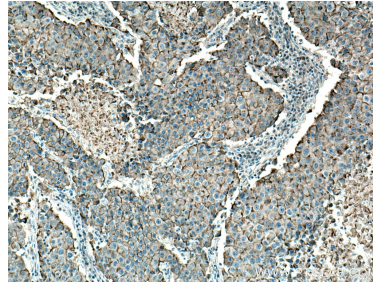
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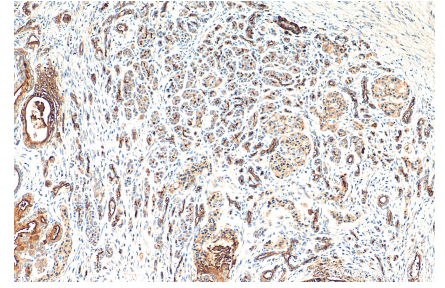
## Selected Validation Data



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).