

Datasheet for ABIN3031861  
**anti-MUC1 antibody (AA 1067-1083)**



[Go to Product page](#)

2 Images

## Overview

|                      |                                     |
|----------------------|-------------------------------------|
| Quantity:            | 100 µg                              |
| Target:              | MUC1                                |
| Binding Specificity: | AA 1067-1083                        |
| Reactivity:          | Human                               |
| Host:                | Rabbit                              |
| Clonality:           | Polyclonal                          |
| Conjugate:           | This MUC1 antibody is un-conjugated |
| Application:         | Western Blotting (WB)               |

## Product Details

|               |                                                                                                    |
|---------------|----------------------------------------------------------------------------------------------------|
| Immunogen:    | Amino acids 1067-1083 (QELQRDISEMFLQIYKQ-human) were used as the immunogen for this MUC1 antibody. |
| Isotype:      | Ig Fraction                                                                                        |
| Purification: | Antigen affinity                                                                                   |

## Target Details

|                   |                                                                                                                                                                                                                                                                              |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target:           | MUC1                                                                                                                                                                                                                                                                         |
| Alternative Name: | MUC1 ( <a href="#">MUC1 Products</a> )                                                                                                                                                                                                                                       |
| Background:       | Mucin 1 protein is encoded by the MUC1 gene in humans. This gene encodes a membrane-bound protein that is a member of the mucin family. Family members are O-glycosylated proteins that play an essential role in forming protective mucous barriers on epithelial surfaces. |

## Target Details

MUC1 is a transmembrane protein normally expressed on the apical borders of secretory epithelial cells. Overexpression is often associated with colon, breast, ovarian, lung and pancreatic cancers. The protein serves a protective function by binding to pathogens and also functions in a cell signaling capacity. It stimulated ESR1-mediated transcription and contributed to estradiol-mediated growth and survival of breast cancer cells. This protein also can suppress pulmonary innate immunity, and its anti-inflammatory activity may play an important modulatory role during microbial infection.

|           |                                                                      |
|-----------|----------------------------------------------------------------------|
| UniProt:  | <a href="#">P15941</a>                                               |
| Pathways: | <a href="#">Negative Regulation of intrinsic apoptotic Signaling</a> |

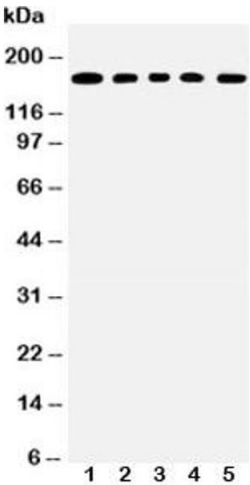
## Application Details

|                    |                                                                                                                                                                                                                         |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application Notes: | The stated application concentrations are suggested starting points. Titration of the MUC1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.\.<br>Western blot: 0.5-1 µg/mL |
| Restrictions:      | For Research Use only                                                                                                                                                                                                   |

## Handling

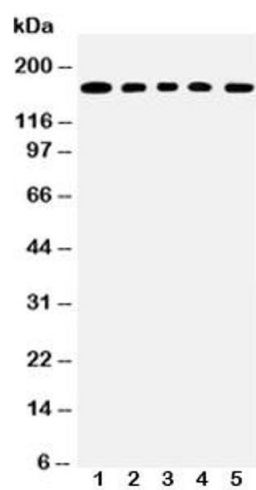
|                  |                                                                                                                                                                   |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Buffer:          | 0.5 mg/mL if reconstituted with 0.2 mL sterile DI water                                                                                                           |
| Storage:         | -20 °C                                                                                                                                                            |
| Storage Comment: | After reconstitution, the MUC1 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing. |

## Images



### Western Blotting

**Image 1.** Western blot testing of MUC1 antibody and Lane 1: COLO320; 2: SW620; 3: HEPG2; 4: MCF-7; 5: Jurkat lysate; This glycoprotein is commonly visualized between 120~500 kDa.



Western Blotting

**Image 2.** Western blot testing of MUC1 antibody and Lane 1: COLO320