Product datasheet

# Anti-CA15-3/MUC1 Antibody (Clone#OTI2F6)

**Catalog Number: *M00187-2***

BOSTER
antibody and ELISA experts
**BOSTER BIOLOGICAL TECHNOLOGY**
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## Basic Information

| | |
|---|---|
| **Product Name** | Anti-CA15-3/MUC1 Antibody (Clone#OTI2F6) |
| **Gene Name** | MUC1 |
| **Source** | Mouse |
| **Clonality** | Monoclonal |
| **Isotype** | IgG1 |
| **Species Reactivity** | human |
| **Tested Application** | WB, IHC, ICC/IF |
| **Contents** | PBS (PH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide. |
| **Immunogen** | Full length human recombinant protein of human MUC1 (NP_001018016) produced in HEK293T cell. |
| **Concentration** | 500 ug/ml |
| **Purification** | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G) |
| **Observed MW** | 25.1 kDa |
| **Dilution Ratios** | Western blot (WB): 1:2000<br>Immunohistochemistry (IHC): 1:150<br>Immunocytochemistry/Immunofluorescence (ICC/IF):1:100 |

## Storage

Stable for 12 months from date of receipt. Store at -20°C as received.

## Background Information

Mucin 1, cell surface associated (MUC1) or polymorphic epithelial mucin (PEM) is a mucin encoded by the MUC1 gene in humans. This gene encodes a membrane-bound protein that is a member of the mucin family. Mucins are O-glycosylated proteins that play an essential role in forming protective mucous barriers on epithelial surfaces. It is mapped to 1q22. Mucin 1 is a transmembrane mucin normally expressed on the apical borders of secretory epithelial cells. Overexpression of Mucin 1 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. Mucin 1 stimulated ESR1-mediated transcription and contributed to estradiol-mediated growth and survival of breast cancer cells. This gene also can suppress pulmonary innate immunity, and its antiinflammatory activity may play an important

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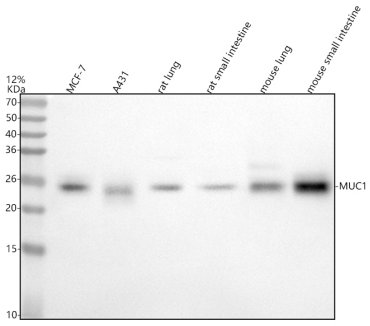
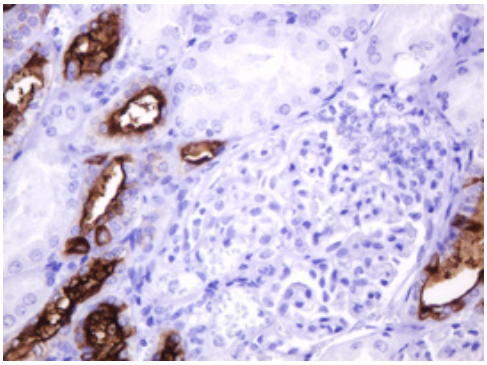
modulatory role during microbial infection.

## Selected Validation Data




Western blot analysis of anti-MUC1 antibody (M00187-2). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human MCF-7 whole cell lysates,
Lane 2: human A431 whole cell lysates,
Lane 3: rat lung tissue lysates,
Lane 4: rat small intestine tissue lysates,
Lane 5: mouse lung tissue lysates,
Lane 6: mouse small intestine tissue lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with mouse anti-MUC1 antigen affinity purified monoclonal antibody (M00187-2) at a dilution of 1:1000 and probed with a goat anti-mouse IgG-HRP secondary antibody (Catalog # BA1050). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for MUC1 at approximately 25 kDa. The expected band size for MUC1 is at 122 kDa.



Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-MUC1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, M00187-2)

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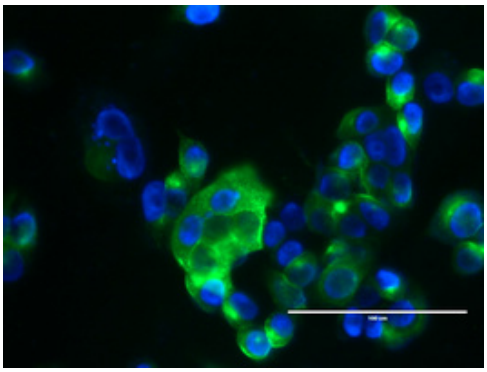

Immunofluorescent staining of MCF-7 cells using anti-MUC1 mouse monoclonal antibody.