

Datasheet for ABIN6940113

**Recombinant anti-MUC1 antibody****4** Images[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	MUC1
Reactivity:	Human, Mouse
Host:	Rabbit
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This MUC1 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), ELISA, Coating (Coat), Staining Methods (StM)

## Product Details

Immunogen:	Human milk-fat globule membranes (HMFGM)
Clone:	MUC1-2818R
Isotype:	IgG
Specificity:	<p>This MAb reacts with MUC1. The dominant epitope of this MAb has not yet been determined. MUC1 is a large cell surface mucin glycoprotein expressed by most glandular and ductal epithelial cells and some hematopoietic cell lineages. It is expressed on most secretory epithelium, including mammary gland and some hematopoietic cells. It is expressed abundantly in lactating mammary glands and over expressed abundantly in 90 % breast carcinomas and metastases. Transgenic MUC1 has been shown to associate with all four c-erbB receptors and localize with c-erbB1 (EGFR) in lactating glands. The MUC1 gene contains seven exons and produces several different alternatively spliced variants. The major expressed form of MUC1</p>

## Product Details

uses all seven exons and is a type 1 transmembrane protein with a large extracellular tandem repeat domain. The tandem repeat domain is highly O glycosylated and alterations in glycosylation have been shown in epithelial cancer cells. Antibody to EMA is useful as a pan-epithelial marker for detecting early metastatic loci of carcinoma in bone marrow or liver.

Purification: Purified by Protein A/G

## Target Details

Target: MUC1

Alternative Name: MUC1 ([MUC1 Products](#))

Molecular Weight: 265-400kDa

Gene ID: 4582

UniProt: [P15941](#)

Pathways: [Negative Regulation of intrinsic apoptotic Signaling](#)

## Application Details

Application Notes: Positive Control: MCF-7 or MDA-231 cells. Breast, colon, ovarian, endometrial carcinoma.  
Known Application: ELISA (For coating use Ab at 2-5 µg/mL, order Ab without BSA) (Very good capturing Ab), Immunohistochemistry (Formalin-fixed) (0.25-0.5 µg/mL for 30 minutes at RT)(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

## Handling

Concentration: 200 µg/mL

Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

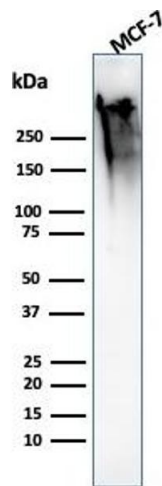
Storage: 4 °C, -80 °C

Handling

Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

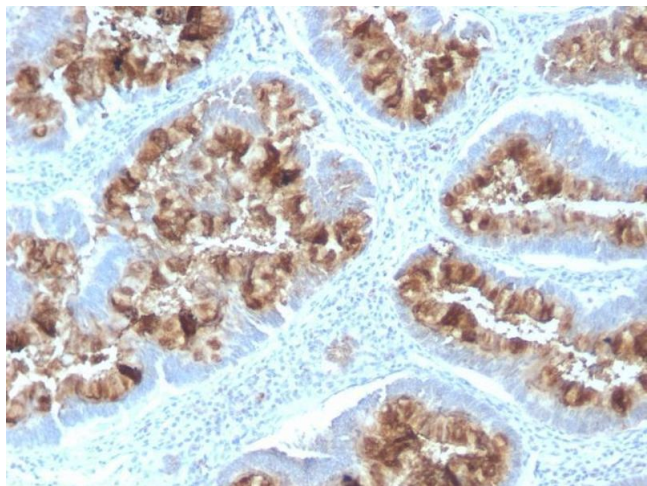
Expiry Date: 24 months

Images



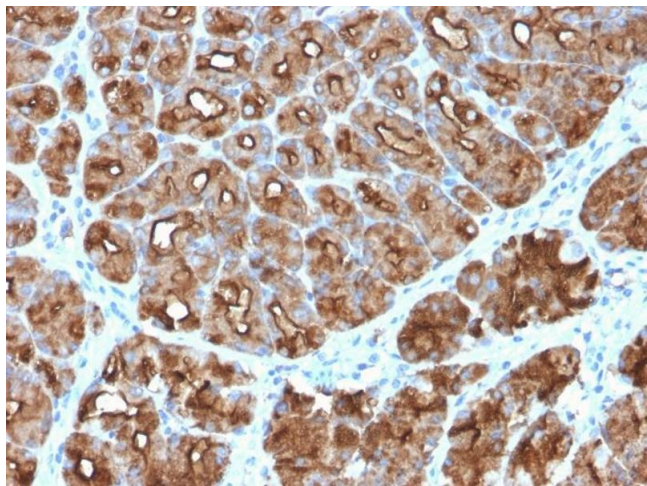
Western Blotting

**Image 1.** Western Blot Analysis of MCF-7 cell lysate using MUC1 Rabbit Recombinant Monoclonal Antibody (MUC1/2818R).



Immunohistochemistry

**Image 2.** Formalin-fixed, paraffin-embedded human Colon stained with MUC1 Rabbit Recombinant Monoclonal Antibody (MUC1/2818R).



Immunohistochemistry

**Image 3.** Formalin-fixed, paraffin-embedded human Stomach Carcinoma stained with MUC1 Rabbit Recombinant Monoclonal Antibody (MUC1/2818R).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN6940113.