10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# MUC1-T1224 Antibody
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**
**Catalog # AP10097a**

## Specification

### MUC1-T1224 Antibody - Product Information

| | |
|---|---|
| Application | **WB,E** |
| Primary Accession | P15941 |
| Other Accession | NP_001037856.1, NP_001037858.1, NP_002447.4, NP_001037855.1, NP_001018016.1, NP_001037857.1 |
| Reactivity | **Human** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |
| Isotype | **Rabbit IgG** |
| Calculated MW | **122102** |
| Antigen Region | **1202-1231** |

### MUC1-T1224 Antibody - Additional Information

**Gene ID** 4582

**Other Names**
Mucin-1, MUC-1, Breast carcinoma-associated antigen DF3, Cancer antigen 15-3, CA 15-3, Carcinoma-associated mucin, Episialin, H23AG, Krebs von den Lungen-6, KL-6, PEMT, Peanut-reactive urinary mucin, PUM, Polymorphic epithelial mucin, PEM, Tumor-associated epithelial membrane antigen, EMA, Tumor-associated mucin, CD227, Mucin-1 subunit alpha, MUC1-NT, MUC1-alpha, Mucin-1 subunit beta, MUC1-beta, MUC1-CT, MUC1, PUM

**Target/Specificity**
This MUC1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1202-1231 amino acids from human MUC1.

**Dilution**
WB~~1:1000

**Format**
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**
MUC1-T1224 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

### MUC1-T1224 Antibody - Protein Information

**Name** MUC1

**Synonyms** PUM

**Function** The alpha subunit has cell adhesive properties. Can act both as an adhesion and an anti-adhesion protein. May provide a protective layer on epithelial cells against bacterial and enzyme attack.

**Cellular Location**
Apical cell membrane; Single-pass type I membrane protein. Note=Exclusively located in the apical domain of the plasma membrane of highly polarized epithelial cells After endocytosis, internalized and recycled to the cell membrane Located to microvilli and to the tips of long filopodial protusions [Isoform Y]: Secreted. [Mucin-1 subunit beta]: Cell membrane. Cytoplasm. Nucleus. Note=On EGF and PDGFRB stimulation, transported to the nucleus through interaction with CTNNB1, a process which is stimulated by phosphorylation. On HRG stimulation, colocalizes with JUP/gamma-catenin at the nucleus

**Tissue Location**
Expressed on the apical surface of epithelial cells, especially of airway passages, breast and uterus. Also expressed in activated and unactivated T-cells. Overexpressed in epithelial tumors, such as breast or ovarian cancer and also in non-epithelial tumor cells. Isoform Y is expressed in tumor cells only

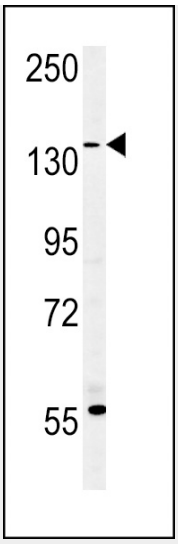
## MUC1-T1224 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## MUC1-T1224 Antibody - Images

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MUC1-T1224 Antibody (Cat. #AP10097a) western blot analysis in MDA-MB435 cell line lysates (35ug/lane).This demonstrates the MUC1 antibody detected the MUC1 protein (arrow).

**MUC1-T1224 Antibody - Background**

This gene is a member of the mucin family and encodes a membrane bound, glycosylated phosphoprotein. The protein is anchored to the apical surface of many epithelia by a transmembrane domain, with the degree of glycosylation varying with cell type. It also includes a 20 aa variable number tandem repeat (VNTR) domain, with the number of repeats varying from 20 to 120 in different individuals. The protein serves a protective function by binding to pathogens and also functions in a cell signaling capacity. Overexpression, aberrant intracellular localization, and changes in glycosylation of this protein have been associated with carcinomas. Multiple alternatively spliced transcript variants that encode different isoforms of this gene have been reported, but the full-length nature of only some has been determined. [provided by RefSeq].

**MUC1-T1224 Antibody - References**

Behrens, M.E., et al. Oncogene 29(42):5667-5677(2010)
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Caffery, B., et al. Mol. Vis. 16, 1720-1727 (2010) :