

## Recombinant Human MUC1 protein ,N- His Tag

CatalogNo: YD2288

### Key Features

#### Reactivity

- Human

### Storage

**Storage\*** Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 °C for one week . Store at -20 to -80 °C for twelve months from the date of receipt.

**Formulation** Supplied as solution form in PBS pH 7.5 ./ Lyophilized from PBS pH 7.5 .

### Recommended Dilution Ratios

Reconstitute in sterile water for a stock solution

### Basic Information

**Source** E.coli

**Purification** E.coli

**Purity** >90% as determined by SDS-PAGE

### Immunogen Information

**Sequence** A DNA sequence encoding the Human MUC1 (Ser24-Pro146) was fused with the N-terminal His Tag

### Target Information

**Protein Name** Mucin-1 (MUC-1) (Breast carcinoma-associated antigen DF3) (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) (CD antigen CD227) [Cleaved into: Mucin-1 subunit alpha (MUC1-NT) (MUC1-alpha); Mucin-1 subunit beta (MUC1-beta) (MUC1-CT)], CA 15-3, CA15 3, CA 15.3 , CA15-3, CA15.3

Organism	Gene ID	UniProt ID
Human	<a href="#">4582</a> ;	<a href="#">P15941</a> ;

**Cellular Localization** Apical cell membrane ; Single-pass type I membrane protein . 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 protrusions.; [Isoform 5]: Secreted.; [Isoform Y]: Secreted.; [Isoform 9]: Secreted.; [Mucin-1 subunit beta]: Cell membrane. Cytoplasm. Nucleus. 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 specificity** 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.

## Validation Data

## Contact information

Orders: [order@immunoway.com](mailto:order@immunoway.com)  
Support: [tech@immunoway.com](mailto:tech@immunoway.com)  
Telephone: 877-594-3616 (Toll Free), 408-747-0185  
Website: <http://www.immunoway.com>  
Address: 2200 Ringwood Ave San Jose, CA 95131 USA



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