

## MUC4 (Mucin 4 / Gastric Mucin) Antibody

Mouse Monoclonal Antibody [Clone MUC4/2863]

| Catalog No      | Format  | Size   |
|-----------------|---|--------|
| 4585-MSM3-P1    | Purified Ab with BSA and Azide at 200ug/ml    | 100 ug |
| 4585-MSM3-P0    | Purified Ab with BSA and Azide at 200ug/ml    | 20 ug  |
| 4585-MSM3-P1ABX | Purified Ab WITHOUT BSA and Azide at 1.0mg/ml | 100 ug |

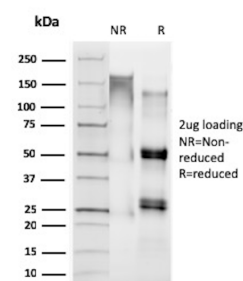
| Applications               | Tested Dillution | Note  |
|----------------------------|------------------|---|
| Immunohistochemistry (IHC) | 1-2ug/ml         | 30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes |

### Product Details

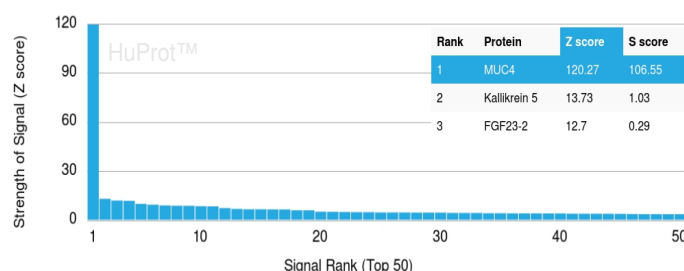
|                        |  |
|------------------------|--|
| Clone                  | MUC4/2863  |
| Gene Name              | MUC4   |
| Immunogen              | Recombinant fragment (around aa 1730-1864) of human MUC4 protein (exact sequence is proprietary) |
| Host                   | Mouse  |
| Clonality              | Monoclonal   |
| Isotype / Light Chain  | IgG1 / Kappa   |
| Mol. Weight of Antigen | 235kDa   |
| Cellular Localization  | Cell membrane, Secreted  |
| Species Reactivity     | Human  |
| Positive Control       | Human stomach, colon or esophagus.   |

\*Optimal dilution for a specific application should be determined.

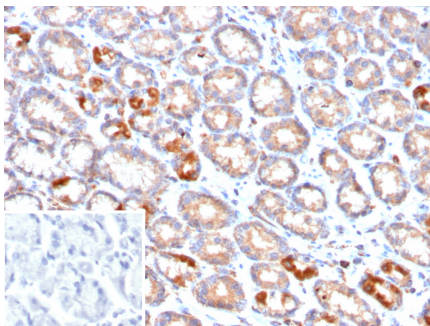
### Product Images for MUC4 (Mucin 4 / Gastric Mucin) Antibody



SDS-PAGE Analysis of Purified Mucin 4 Mouse Monoclonal Antibody (MUC4/2863). Confirmation of Purity and Integrity of Antibody.



Analysis of Protein Array containing more than 19,000 full-length human proteins using Mucin 4 Mouse Monoclonal Antibody (MUC4/2863). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



Formalin-fixed, paraffin-embedded human stomach stained with Mucin 4 Mouse Monoclonal Antibody (MUC4/2863). Inset: PBS instead of primary antibody; secondary only negative control.

### Specificity & Comments

The major constituents of mucus, the viscous secretion that covers epithelial surfaces such as those in the trachea, colon, and cervix, are highly glycosylated proteins called mucins. These glycoproteins play important roles in the protection of the epithelial cells and have been implicated in epithelial renewal and differentiation. This gene encodes an integral membrane glycoprotein found on the cell surface, although secreted isoforms may exist. MUC-4 transcripts have been detected in normal respiratory epithelium and lung. MUC-4 is a very specific (100%) and sensitive (90%) marker of lung adenocarcinomas and is negative for mesotheliomas. Reportedly, MUC-4 expression in invasive ductal carcinoma of the pancreas is an independent factor for poor prognosis.

### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

### Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

### Storage and Stability

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.

### Research Areas

Cardiovascular, Immunology, Infectious Disease