



# Meridian

## Life Science,® Inc.

Innovative Solutions. Trusted Partner.®

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### CERTIFICATE OF ANALYSIS

**Important Note:** Centrifuge before opening to ensure complete recovery of vial contents.

**Catalog #:** M01294M **Lot #:** 1D09918

**Description:** MAb to MUC1  
Monoclonal Antibody to Human MUC1 Glycoprotein

**Specificity:** Reacts with high efficiency with different regions of GVTSAPDTRPAPGSTAPPAHGVTSA synthetic peptide spanning the repeat of VNTR extracellular portion of MUC1 molecule. Reacts with VNTR5 and VNTR20 recombinant unglycosylated fragments of MUC1 protein and underglycosylated MUC1 prepared from tumor fluids (T47D cell) or as a result of chemical treatment (NaJO4) of human milk MUC1. It does not react with natural MUC1 protein isolated from human milk by affinity purification on carbohydrate epitope specific MAbs and belong to MAb cluster 1-4 according to ISOMB TD-4 classification. No cross-reactivity with egg white avidin.

**Host Animal:** Mouse **Isotype:** IgG

**Source:** Ascites

**Immunogen:** Recombinant (*E.coli*) VENTR20 (tandem repeat in MUC1 core) polypeptide.

**Format:** Purified, Liquid

**Purification:** > 90% pure (SDS-PAGE). Protein A Chromatography

**Concentration:** 8.7 mg/mL (OD280nm, E<sup>0.1%</sup> = 1.4)

**Buffer:** Phosphate Buffered Saline, pH 7.4

**Preservative:** 0.09% Sodium Azide

**Applications:** Suitable for use in Immunohistochemical and Immunofluorescent detection of neoplastic breast epithelium (frozen sections).  
May be used development of highly effective ELISA tests for unglycosylated and underglycosylated tumor-associated MUC1 mucins in human serum. May also be used for the solid-phase capture of MUC1 isoforms. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.

<u>Capture</u>	<u>Detection</u>	
M01294M	M01294M	Unglycosylated MUC1
M01294M	M86205M	Underglycosylated MUC1
M01294M	M01288M	Underglycosylated MUC1
M01294M	M86240M	Underglycosylated MUC1
M01294M	M01289M	Underglycosylated MUC1

**Storage:** Store at 2–8°C.

**Safety Note(s):** Refer to the appropriate Safety Data Sheet (SDS) for additional information.

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**FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY**