Monoclonal Antibody to CD227 / Mucin-1 / MUC1 (C-term) - Purified


Quantity: 50 µl
Concentration: 0.5 mg/ml

Background: 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 overexpressed abundantly in >90% breast carcinomas and metastases. Transgenic MUC1 has been shown to associate with all four cebB receptors and localize with erbB1 (EGFR) in lactating glands. The MUC1 gene contains seven exons and produces several different alternatively spliced variants. The major expressed form of MUC1 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. Isoform 7 of MUC1 behaves as a receptor and binds the secreted isoform 5. The binding induces the phosphorylation of the isoform 7, alters cellular morphology and initiates cell signaling.

Uniprot ID: P15941
NCBI: NP_001018016.1
GeneID: 4582
Host / Isotype: Rabbit / Ig
Clone: G22-L
Immunogen: Synthetic Peptide derived from C-terminal sequence of Human CD227/Mucin-1.
Format: State: Liquid purified Ig fraction.
Buffer System: 20 mM Tris-HCl, pH 8.0 containing 20 mg/ml BSA as stabilizer and 0.05% Sodium Azide as preservative
Applications: Immunohistochemistry on Frozen Sections: 1/400 - 1/600.
Immunohistochemistry on Paraffin Sections: 10 µg/ml.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity: This antibody recognizes Mucin 1 (MUC1/CA15-3/CA27-29).
Species Reactivity: Tested: Human.

For research and in vitro use only. Not for diagnostic or therapeutic work. Material Safety Datasheets are available at www.acris-antibodies.com or on request.
Storage: Upon receipt, store undiluted (in aliquots) at -20°C.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

Product Citations: Purchased from Acris:

Pictures:
Breast: Formalin-Fixed, Paraffin-Embedded (FFPE)

Formalin-fixed and paraffin-embedded human stomach tissue (4 microns) stained with anti-epithelial membrane antigen antibody shows strong positive immunostaining of epithelial cells.