MUC5AC monoclonal antibody

Catalog: MB66083 Host: Mouse Reactivity: Human

BackGround:

Mucins are a family of macromolecules that line and protect the respiratory epithelium from microbes and pollutants in the local environment. Of the family members that are known to date, some are produced in a cell type and tissue-specific manner, suggesting distinct biological roles for members. Some members polymerize after secretion to form gel-like substances that coat the epithelial layer. MUC5AC and MUC5B are members of the family that polymerize in this manner. Others do not polymerize, and others yet, have a transmembrane domain and remain physically attached to the epithelia. While it is known that mucins are protective to the respiratory epithelium, it has been reported that changes in expression of mucins are associated with several forms of lung disease such as cystic fibrosis, COPD, asthma, pulmonary fibrosis, and others. Multiple epithelial malignancies have been described to show changes in expression, localization, and glycosylation of MUC5AC. This wide association with multiple malignancy types has led to the emergence of MUC5AC as both a prognostic and therapeutic target for cancer.

Product:

Mouse IgG1. Liquid in PBS containing 50% glycerol, 0.2% BSA and 0.01% sodium azide.

Molecular Weight:

~ 585 kDa

Swiss-Prot:

P98088

Purification&Purity:

The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

IHC (1/100 - 1/300)

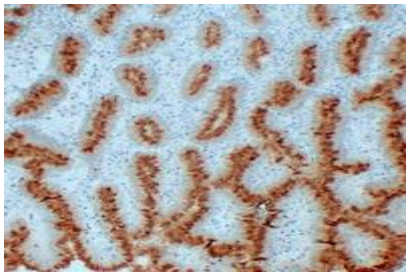
Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

Specificity:

Recognizes endogenous levels of MUC5AC protein.

DATA:



Immunohistochemical analysis of MUC5AC staining in human stomach formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Note:

For research use only, not for use in diagnostic procedure.

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