

MUC2 Recombinant Rabbit Monoclonal Antibody Product Datasheet

Catalog# BX50378

Clone# BP6345

Predicted Molecular Wt: 550kDa

Species Cross-reactivity: Human

Applications: IHC-P

Purity: ProA affinity purified IgG

Form: Liquid

Swissprot ID: Q02817

Background:

MUC2 is a secreted gel-forming mucin produced by goblet cells that serves as the primary structural component of the intestinal mucus barrier, shielding the epithelium from pathogens and mechanical injury while preserving gut homeostasis. MUC2 networks form hydrogels that guard the underlying epithelium from pathogens and other hazardous matter entering from the outside world, while permitting nutrient absorption and gas exchange.

MUC2 is predominantly expressed in intestinal goblet cells of the colon and small intestine, with lower expression detected in the stomach, respiratory tract, and conjunctiva, while being absent or minimally present in most other tissues.

MUC2 serves as a valuable immunohistochemical marker in clinical pathology for identifying intestinal differentiation in adenocarcinomas, particularly in distinguishing primary colorectal carcinoma from other sources, confirming enteric phenotype in mucinous and signet-ring cell carcinomas, and supporting the diagnosis of pseudomyxoma peritonei and appendiceal mucinous neoplasms.

Subcellular location:

Cytoplasm/Secreted

Recommended Method:

Heat induced epitope retrieval with Tris-EDTA buffer (pH 9.0), primary antibody incubate at RT (18°C-25°C) for 30 minutes.

Immunogen:

The synthetic peptide corresponding to Human MUC2 aa 2230-2279

Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

Storage Conditions:

-25°C to -18°C

Shipment Instructions:

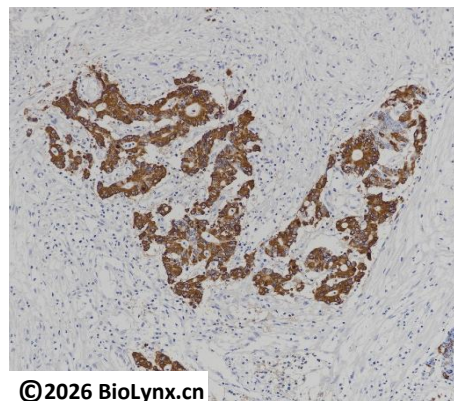
Shipped on blue ice. Upon delivery store at -25°C to -18°C. Avoid freeze / thaw cycles.

Recommended Dilution:

IHC-P: 1:100-1:200

Background References:

- Ning Yang. et al. (2024) BMC biology 22:297
- Xiaofang Yang. et al. (2023) Gut and liver 18:414-425



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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human colon cancer labelling MUC2 with BP6345.

Product QC'd by: 

For research use only. Not for use in diagnostic or therapeutic applications.