

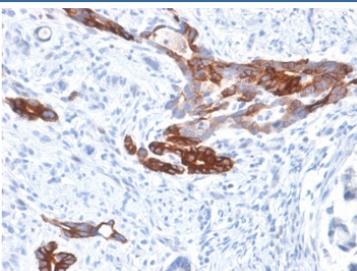
Gastric Mucin/MUC6 Antibody [clone MUC6/1553R] (V3722)

Catalog No.	Formulation	Size
V3722-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3722-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3722SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3722IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

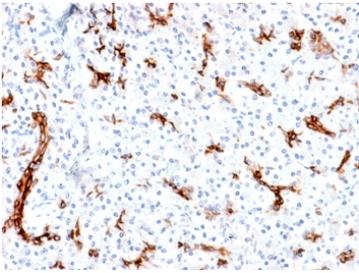
Recombinant **RABBIT MONOCLONAL**

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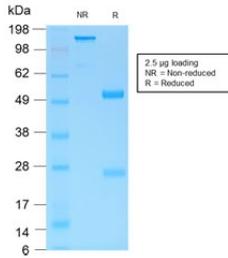
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	MUC6/1553R
Purity	Protein A affinity chromatography
UniProt	Q6W4X9
Localization	Cytoplasmic & secreted
Applications	Immunohistochemistry (FFPE) : 2-4ug/ml for 30 min at RT (1)
Limitations	This Gastric Mucin/MUC6 antibody is available for research use only.



Immunohistochemistry analysis of Gastric Mucin / MUC6 antibody (clone MUC6/1553R) in human gastric carcinoma tissue. FFPE human gastric carcinoma section shows cytoplasmic brown chromogenic staining in malignant glandular epithelial cells, consistent with MUC6 expression, while surrounding stromal elements exhibit minimal staining and nuclei appear blue. Heat-induced epitope retrieval was performed by boiling tissue sections in pH 9 10 mM Tris with 1 mM EDTA for 10-20 minutes followed by cooling at room temperature for 20 minutes prior to staining.



IHC staining of FFPE human pancreas with Gastric Mucin/MUC6 antibody (clone MUC6/1553R). Required HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.



SDS-PAGE analysis of purified, BSA-free Gastric Mucin/MUC6 antibody (clone MUC6/1553R) as confirmation of integrity and purity.

Description

Gastric Mucin antibody (clone MUC6/1553R) targets Mucin 6, a secreted gel-forming mucin encoded by the human MUC6 gene and a principal component of deep gastric gland mucus. Mucin 6, also widely referred to as MUC6 in molecular and pathology literature, is predominantly expressed in pyloric glands of the stomach and in Brunner glands of the duodenum. Because of this restricted localization, Gastric Mucin antibody and MUC6 antibody are commonly used in studies evaluating pyloric-type differentiation and gastric gland lineage in normal and neoplastic tissues.

MUC6 is synthesized as a large, heavily O-glycosylated secreted glycoprotein that polymerizes to form part of the protective mucus barrier in the gastrointestinal tract. In normal gastric mucosa, Mucin 6 is localized to the cytoplasm and secretory granules of deep glandular epithelial cells, whereas MUC5AC marks the superficial foveolar epithelium. This complementary zonal expression pattern makes Gastric Mucin antibody clone MUC6/1553R particularly useful for distinguishing glandular compartments and assessing mucin phenotype shifts in metaplasia and carcinoma.

Altered MUC6 expression has been documented in gastric adenocarcinoma, pancreatic neoplasms, and colorectal tumors demonstrating gastric-type differentiation. Changes in Mucin 6 distribution are also observed in intestinal metaplasia and other preneoplastic conditions. Gastric Mucin antibody supports immunohistochemical characterization of pyloric gland differentiation and mucin subclass profiling in research applications.

Structurally, Mucin 6 contains extensive tandem repeat domains enriched in serine and threonine residues that support dense O-glycosylation, along with cysteine-rich domains responsible for mucin polymerization and gel formation. A Gastric Mucin antibody such as clone MUC6/1553R is suitable for detecting MUC6 expression in gastric glands, duodenal Brunner glands, and mucin-producing glandular tissues in research settings.

Application Notes

Optimal dilution of the Gastric Mucin/MUC6 antibody should be determined by the researcher.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

A peptide from the MUC6 tandem repeat sequence was used as the immunogen for the Gastric Mucin/MUC6 antibody.

Storage

Store the Gastric Mucin/MUC6 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).