

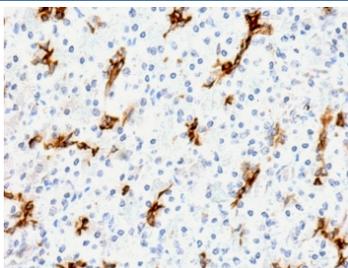
Recombinant MUC6 Antibody / Gastric Mucin / Rabbit Monoclonal [clone MUCN6-2R] (V3682)

Catalog No.	Formulation	Size
V3682-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3682-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3682SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3682IHC-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**

[Bulk quote request](#)

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	MUCN6-2R
Purity	Protein A affinity chromatography
UniProt	Q6W4X9
Localization	Cytoplasmic & secreted
Applications	Immunohistochemistry (FFPE) : 2-4ug/ml for 30 min at RT Prediluted IHC Only Format : incubate for 30 min at RT (1)
Limitations	This MUC6 antibody is available for research use only.



Immunohistochemistry analysis of MUC6 / Mucin 6 antibody (clone MUCN6-2R) in human pancreas tissue. FFPE human pancreas section shows cytoplasmic brown chromogenic staining in scattered glandular epithelial cells, consistent with MUC6 expression, while surrounding acinar cells 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.

Description

MUC6 antibody (clone MUCN6-2R) targets Mucin 6, a secreted gel-forming mucin encoded by the human MUC6 gene and a key component of gastric gland mucus. Mucin 6, also widely referred to as MUC6 in the literature, is predominantly expressed in pyloric glands of the stomach and in Brunner glands of the duodenum. MUC6 antibody clone MUCN6-2R is a recombinant monoclonal antibody developed for consistent detection of Mucin 6 expression in glandular epithelial tissues.

MUC6 is synthesized as a large, heavily O-glycosylated secreted glycoprotein that polymerizes to form part of the protective mucus barrier within 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 surface foveolar epithelium. This zonal expression pattern makes MUC6 antibody particularly valuable for distinguishing gastric gland differentiation and for evaluating mucin phenotype shifts in intestinal metaplasia and gastric carcinoma.

Aberrant expression of MUC6 has been reported in gastric adenocarcinoma, pancreatic neoplasms, and colorectal tumors demonstrating gastric-type differentiation. Altered Mucin 6 distribution is also observed in preneoplastic lesions and metaplastic changes. MUC6 antibody clone MUCN6-2R supports immunohistochemical assessment of pyloric-type mucin production and glandular lineage profiling in research applications.

Structurally, Mucin 6 contains extensive tandem repeat domains rich in serine and threonine residues that enable dense O-glycosylation, along with cysteine-rich domains responsible for mucin polymerization and gel formation. As a recombinant monoclonal antibody, clone MUCN6-2R provides defined sequence consistency for detecting MUC6 expression in gastric glands, duodenal Brunner glands, and mucin-producing glandular tissues in research settings.

Application Notes

The stated application concentrations are suggested starting points. Titration of the MUC6 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

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 Mucin-6 tandem repeat sequence was used as the immunogen for the MUC6 antibody.

Storage

Store the recombinant MUC6 antibody at 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide).