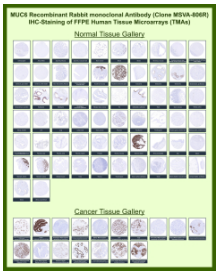
Pyloric Gland Mucin Antibody / MUC6 [clone MSVA-806R] (V5954)

Catalog No.	Formulation	Size
V5954-100UG	Antibody in 1X PBS with 0.05% BSA, 0.05% sodium azide	100 ug
V5954-20UG	Antibody in 1X PBS with 0.05% BSA, 0.05% sodium azide	20 ug

Recombinant RABBIT MONOCLONAL

Bulk quote request

Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	MSVA-806R
UniProt	Q6W4X9
Localization	Secreted
Applications	Immunohistochemistry (FFPE) : 1:100-1:200
Limitations	This Pyloric Gland Mucin/MUC6 antibody is available for research use only.



Immunohistochemistry analysis of Pyloric Gland Mucin / MUC6 antibody (clone MSVA-806R) in human tissue microarrays. Pyloric Gland Mucin / MUC6 antibody (clone MSVA-806R) was evaluated on FFPE human normal and cancer tissue microarrays, demonstrating cytoplasmic brown chromogenic staining in pyloric gland epithelium and other MUC6-expressing glandular tissues, while most non-glandular tissues show minimal staining. The observed staining distribution across normal and malignant specimens is consistent with known MUC6 expression patterns and publicly available protein expression data.

Description

Pyloric Gland Mucin antibody (clone MSVA-806R) targets Mucin 6, a secreted gel-forming mucin encoded by the human MUC6 gene and a principal component of pyloric gland mucus in the stomach. Mucin 6, also widely referred to as MUC6 in molecular and pathology literature, is predominantly expressed in deep gastric pyloric glands and in Brunner glands of the duodenum. Because of this restricted localization, Pyloric Gland Mucin antibody and MUC6 antibody are commonly used to evaluate pyloric-type differentiation in normal tissue and neoplastic lesions.

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, in contrast to MUC5AC, which marks surface foveolar epithelium. This zonal expression pattern makes Pyloric Gland Mucin antibody clone MSVA-806R particularly valuable for distinguishing gastric gland compartments and for assessing mucin phenotype shifts in intestinal metaplasia and gastric carcinoma.

Altered MUC6 expression has been documented in gastric adenocarcinoma, pancreatic neoplasms, and colorectal tumors exhibiting gastric-type differentiation. Changes in Mucin 6 distribution are also observed in preneoplastic conditions and metaplastic processes. Pyloric Gland Mucin antibody supports immunohistochemical characterization of pyloric gland lineage and mucin subclass profiling in research applications.

Structurally, Mucin 6 contains extensive tandem repeat domains enriched 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 MSVA-806R provides defined sequence consistency for detecting MUC6 expression in gastric pyloric glands, duodenal Brunner glands, and mucin-producing glandular tissues in research settings.

Application Notes

1. Optimal dilution of the Pyloric Gland Mucin/MUC6 antibody should be determined by the researcher.

2. This Pyloric Gland Mucin/MUC6 antibody is recombinantly produced by expression in human HEK293 cells.

3. Manual Protocol: Freshly cut sections should be used (less than 10 days between cutting and staining). Heat-induced antigen retrieval for 5 minutes in an autoclave at 121oC in pH 7.8 Target Retrieval Solution buffer. Apply the antibody at a dilution of 1:150 at 37oC for 60 minutes. Visualization of bound antibody by the EnVision Kit (Dako, Agilent) according to the manufacturer's directions.

Immunogen

Recombinant human MUC6 protein was used as the immunogen for the Pyloric Gland Mucin/MUC6 antibody.

Storage

Pyloric Gland Mucin/MUC6 antibody with sodium azide - store at 2 to 8oC; antibody without sodium azide - store at -20 to -80oC.