Mucin 5AC (ANT0048R) Rabbit mAb

CatalogNo: ANT8156 Recombinant

Formulation: PBS,50%glycerol,0.05%Proclin 300,0.05%BSA
Quantity : 100 ug/vial

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat,

Applications
- WB,IHC,IF,IP,ELISA

MW
- 527kD (Calculated)

130-600kD (Observed)

Isotype
- IgG,Kappa

Recommended Dilution Ratios

IHC 1:200-1:1000
WB 1:1000-1:5000
IF 1:200-1:1000
ELISA 1:5000-1:20000
IP 1:50-1:200,

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)

Basic Information

Clonality	Monoclonal
Clone Number	ANT0048R

Target Information

Immunogen Information Specificity

Endogenous

Gene name MUC5AC MUC5

Protein Name Mucin-5AC (MUC-5AC) (Gastric mucin) (Lewis B blood group antigen) (LeB) (Major airway glycoprotein) (Mucin-5 subtype AC, tracheobronchial) (Tracheobronchial mucin) (TBM) (Fragments)

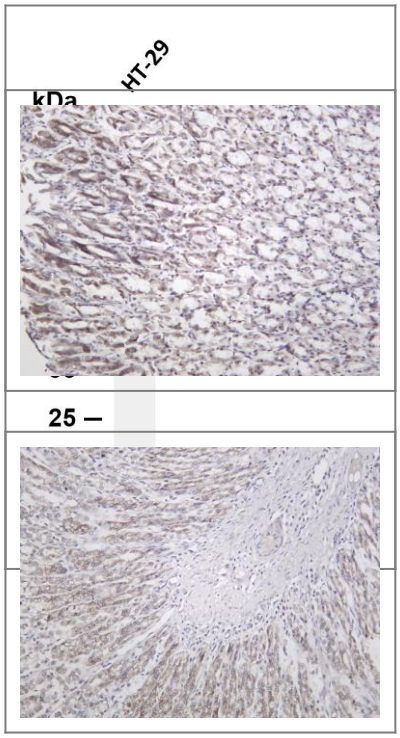
Organism	Gene ID	UniProt ID
Human		P98088;

Cellular Localization Cytoplasm

Tissue specificity Highly expressed in surface mucosal cells of respiratory tract and stomach epithelia. Overexpressed in a number of carcinomas. Also expressed in Barrett's esophagus epithelium and in the proximal duodenum.

Function Domain:The cysteine residues in the Cys-rich subdomain repeats are not involved in disulfide bonding.,Function:Gel-forming glycoprotein of gastric and respiratoy tract epithelia that protects the mucosa from infection and chemical damage by binding to inhaled microrganisms and particules that are subsequently removed by the mucocilary system.,ANTM:C-, O- and N-glycosylated. O-glycosylated on the Thr-/Ser-rich tandem repeats. C-mannosylation in the Cys-rich subdomains may be required for proper folding of these regions and for export from the endoplasmic reticulum during biosynthesis.,PTM:Proteolytic cleavage in the C-terminal is initiated early in the secretory pathway and does not involve a serine protease. The extent of cleavage is increased in the acidic parts of the secretory pathway. Cleavage generates a reactive group which could link the protein to a primary amide.,similarity:Contains 1 CTCK (C-terminal cystine knot-like) domain.,similarity:Contains 2 VWFC domains.,similarity:Contains 4 VWFD domains.,subunit:Multimeric. Interacts with H.pylori in the gastric epithelium, Barrett's esophagus as well as in gastric metaplasia of the duodenum (GMD).,tissue specificity:Highly expressed in surface mucosal cells of respiratory tract and stomach epithelia. Overexpressed in a number of carcinomas. Also expressed in Barrett's esophagus epithelium and in the proximal duodenum.,

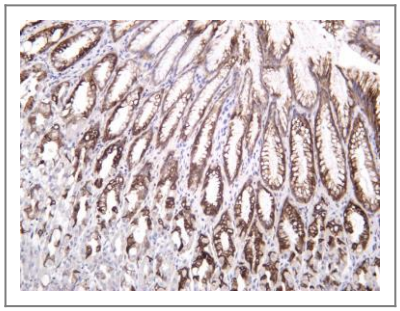
Validation Data



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Mucin 5AC (ANT0048R) antibody. The HRPconjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: HT-29 Predicted band size: 527kDa Observed band size:
130-600kDa

Mouse stomach was stained with Anti-Mucin 5AC (ANT0048R) rabbit antibody

Rat stomach was stained with Anti-Mucin 5AC (ANT0048R) rabbit antibody



Human stomach was stained with Anti-Mucin 5AC (ANT0048R) rabbit antibody