

Product datasheet for **AM32158PU-N**

Mucin-5AC Mouse Monoclonal Antibody [Clone ID: 2-12M1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	2-12M1
Applications:	IHC, WB
Recommended Dilution:	Immunohistochemistry on cultured cells: Strongly positive on ethanol fixed epithelial cells. Immunochemistry on Frozen Ethanol Fixed Sections. Immunochemistry on Paraffin Sections: Very strong positive reaction with ethanol fixed tissues. Protease pretreatment is recommended for formalin post-fixed tissues. 2-12M1 cross-reacts with mucin of different animal species after periodate pretreatment of deparaffinized sections (Monkey, Cat, Mouse and Cow). Immunoblotting: Strongly positive without beta-mercaptoethanol pretreatment of Mucin solution.
Reactivity:	Bovine, Feline, Monkey, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	A BALB/c mouse was immunized with mucin isolated from an ovarian cyst fluid (pure endocervical type according to the Fenoglio's classification). Splenocytes were fused with mouse myeloma SP2/0 cells.
Specificity:	This antibody clone 2-12M1 reacts with peptide core of Gastric Mucin (MUC5AC).
Formulation:	PBS State: Purified State: Liquid purified IgG fraction Preservative: 0.05% Sodium Azide
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



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Gene Name: mucin 5AC, oligomeric mucus/gel-forming

Database Link: [P98088](#)

Background: Mucins are high molecular weight glycoproteins that are found especially in the secretions of mucus membranes. Gastric Mucin 5AC antigen is found in columnar mucus cells of surface gastric epithelium and in goblet cells of the fetal and precancerous colon but not in normal colon. Resurgence of gastric mucin during colonic carcinogenesis is suggestive of either re-expression of the peptide core of gastric mucin in the adult colon or due to changes in the glycosylation pattern of mucin, which expose the hidden Mucin 5AC antigen.

Synonyms: MUC5AC, MUC5, TBM, LeB