

Datasheet: OBT1746

BATCH NUMBER 170670

Description:	MOUSE ANTI HUMAN MUCIN 5AC
Specificity:	MUCIN 5AC
Other names:	GASTRIC MUCIN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	1-13M1
Isotype:	IgG1
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Frozen	▪			
Immunohistology - Paraffin (1)	▪			
ELISA	▪			
Western Blotting (2)	▪			

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

(1) This product requires protein digestion pre-treatment of paraffin sections e.g. trypsin or pronase.

(2) Clone 1-13M1 recognizes Mucin 5AC under non-reducing conditions.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Antibody purified from tissue culture supernatant
Buffer Solution	Phosphate buffered saline

Preservative Stabilisers	0.02% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
Immunogen	A BALB/c mouse was immunized with mucin isolated from an ovarian cyst fluid (pure endocervical type according to the Fenoglio's classification).
External Database Links	<p>UniProt: P98088 Related reagents</p> <p>Entrez Gene: 4586 MUC5AC Related reagents</p>
Synonyms	MUC5
RRID	AB_620228
Specificity	<p>Mouse anti Human Mucin 5AC antibody, clone 1-13M1 recognizes the peptide core of gastric mucin, also known as Mucin-5AC, Lewis B blood group antigen, Major airway glycoprotein or Tracheobronchial mucin.</p> <p>Mucins are high molecular weight glycoproteins found predominantly in the secretions of mucus membranes, protecting them from infection or chemical damage. 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. Mouse anti Human Mucin 5AC antibody, clone 1-13M1 has not been cross-adsorbed and may react with related peptides from other species.</p>
References	<ol style="list-style-type: none"> Fang, C. <i>et al.</i> (2012) Resistin-like molecule-β is a human airway remodelling mediator. Eur Respir J. 39 (2): 458-66. Ramaglia, L. <i>et al.</i> (2015) Differentiation, apoptosis, and GM-CSF receptor expression of human gingival fibroblasts on a titanium surface treated by a dual acid-etched procedure. Clin Oral Investig. 19 (9): 2245-53. Mori, A. <i>et al.</i> (2025) Enhancement of cigarette smoke extract-induced goblet cell metaplasia and hyperplasia exerted through IL-13 receptor α1 expression. Toxicol Lett. 410: 177-87.
Storage	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>

Guarantee	Guaranteed until date of expiry. Please see product label.
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/OBT1746
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M410361:221028'

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