

Datasheet: MCA1743F

Description:	MOUSE ANTI HUMAN MUCIN 2:FITC
Specificity:	MUCIN 2
Other names:	MUC-2
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	996/1
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
Flow Cytometry (1)	▪			Neat - 1/10
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	

Where this product 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 product for use in their own system using appropriate negative/positive controls.

(1) **Membrane permeabilization is required for this application. The use of Leucoperm (Product Code [BUF09](#)) is recommended for this purpose.**

Target Species	Human		
Product Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant		

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% sodium azide (NaN ₃) 1% bovine serum albumin
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
Immunogen	MUC-2 tandem repeat peptide.
External Database Links	<p>UniProt: Q02817 Related reagents</p> <p>Entrez Gene: 4583 MUC2 Related reagents</p>
Synonyms	SMUC
RRID	AB_2148834
Fusion Partners	Spleen cells from immunized Balb/c mice were fused with cells of a mouse NS0 myeloma cell line.
Specificity	<p>Mouse anti Human Mucin 2 antibody, clone 996/1 recognizes human Mucin 2 (MUC-2), and shows no cross-reactivity with MUC-1, MUC-3 or MUC-4.</p> <p>In formalin fixed, paraffin embedded tissue sections Mouse anti Human Mucin 2 antibody, clone 996/1 reveals high levels of expression in colon, liver and prostate tissues (Durrant et al. 1994).</p> <p>Mouse anti Human Mucin 2 antibody, clone 996/1 recognizes malignant colonic mucosa as well as normal mucosa. Epitope mapping indicates that Mouse anti Human Mucin 2 antibody, clone 996/1 recognizes a sequence PTGTQ within the mucin 2 tandem repeat region (Uray et al. 1999).</p>
Flow Cytometry	Use 10µl of the suggested working dilution to label 1x10 ⁶ cells in 100µl
References	<ol style="list-style-type: none"> Price, M.R. <i>et al.</i> (1993) Immune recognition of human colonic-tumour-associated MUC-2 mucins using an anti-peptide antibody. Int J Cancer. 55 (5): 753-9. Filipe, M.I. <i>et al.</i> (1996) Expression of a peptide epitope of the colonic mucin MUC2 in precursor lesions to gastric carcinoma. Eur J Cancer Prev. 5 (4): 287-95. Paulsen, F.P. <i>et al.</i> (2003) Characterization of mucins in human lacrimal sac and nasolacrimal duct. Invest Ophthalmol Vis Sci. 44 (5): 1807-13. Price, M.R. <i>et al.</i> (1999) Separation of distinct MUC2 mucin glycoforms using two anti-peptide monoclonal antibodies. Int J Oncol. 15 (4): 803-9. Tugyi, R. <i>et al.</i> (2005) Partial D-amino acid substitution: Improved enzymatic stability and preserved Ab recognition of a MUC2 epitope peptide. Proc Natl Acad Sci U S A. 102 (2): 413-8.

6. Uray, K. *et al.* (2000) Effect of D-amino acid substitution in a mucin 2 epitope on mucin-specific monoclonal antibody recognition. [Arch Biochem Biophys. 378 \(1\): 25-32.](#)
7. Uray, K. *et al.* (1999) Effect of solution conformation on antibody recognition of a protein core epitope from gastrointestinal mucin (MUC2). [Arch Biochem Biophys. 361 \(1\): 65-74.](#)

Storage	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.
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Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA1743F 10041
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Regulatory	For research purposes only
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Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:FITC \(MCA928F\)](#)

Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)
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