## Datasheet: MCA1743 BATCH NUMBER 153589

Description:	MOUSE ANTI HUMAN MUCIN 2
Specificity:	MUCIN 2
Other names:	MUC-2
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	996/1
Isotype:	lgG1
Quantity:	0.2 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 <u>www.bio-rad-antibodies.com/protocols</u>.

		<u>0010</u> .						
		Yes	No	Not Determined	Suggested Dilution			
	Flow Cytometry (1)							
	Immunohistology - Frozen	-						
	Immunohistology - Paraffin							
	ELISA			•				
	Immunoprecipitation			•				
	Western Blotting	•						
	Where this product has n	ot been f	ested for	use in a particular tech	nique this does not			
	necessarily exclude its us	s use in such procedures. Suggested working dilutions are given as						
	a guide only. It is recomm	guide only. It is recommended that the user titrates the product for use in their own						
	system using appropriate	negative	e/positive	controls.				
. ,		Membrane permeabilization is required for this application. Bio-Rad recommend						
	the use of Leucoperm <sup>™</sup> (Product Code <u>BUF09</u> ) for this purpose.							
Target Species	Human							
Product Form	Purified IgG - liquid							
Preparation	Purified IgG prepared by	affinity c	hromatod	ranhy on Protein A fror	m tissue culture			
	i annoa igo proparoa by	anning 0	inomatog					

Buffer Solution Phosphate buffered saline

supernatant

Preservative Stabilisers	0.09% Sodium Azide
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	MUC-2 tandem repeat peptide.
External Database Links	UniProt: <u>Q02817</u> <u>Related reagents</u> Entrez Gene: <u>4583</u> MUC2 <u>Related reagents</u>
Synonyms	SMUC
RRID	AB_2148835
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of a mouse NS0 myeloma cell line.
Specificity	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.
	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 ( <u>Durrant</u> <u>et al. 1994</u> ).
	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 ( <u>Uray <i>et al.</i> 1999</u> ).
Flow Cytometry	Use 10ul of the suggested working dilution to label $1 \times 10^6$ cells in 100ul.
Histology Positive Control Tissue	Normal colon
References	<ol> <li>Filipe, M.I. <i>et al.</i> (1996) Expression of a peptide epitope of the colonic mucin MUC2 in precursor lesions to gastric carcinoma. <u>Eur J Cancer Prev. 5 (4): 287-95.</u></li> <li>Paulsen, F.P. <i>et al.</i> (2003) Characterization of mucins in human lacrimal sac and nasolacrimal duct. <u>Invest Ophthalmol Vis Sci. 44 (5): 1807-13.</u></li> <li>Price, M.R. <i>et al.</i> (1999) Separation of distinct MUC2 mucin glycoforms using two anti-peptide monoclonal antibodies. <u>Int J Oncol. 15 (4): 803-9.</u></li> <li>Price, M.R. <i>et al.</i> (1993) Immune recognition of human colonic-tumour-associated MUC-2 mucins using an anti-peptide antibody. <u>Int J Cancer. 55 (5): 753-9.</u></li> </ol>

	<ol> <li>Tugyi, R. <i>et al.</i> (2005) Partial D-amino acid substitution: Improved enzymatic stability and preserved Ab recognition of a MUC2 epitope peptide. <u>Proc Natl Acad Sci U S A. 102</u> (2): 413-8.</li> <li>Uray, K. <i>et al.</i> (2000) Effect of D-amino acid substitution in a mucin 2 epitope on mucin- specific monoclonal antibody recognition. <u>Arch Biochem Biophys. 378 (1): 25-32.</u></li> <li>Uray, K. <i>et al.</i> (1999) Effect of solution conformation on antibody recognition of a protein core epitope from gastrointestinal mucin (MUC2). <u>Arch Biochem Biophys. 361 (1): 65-74.</u></li> </ol>
Storage	Store at +4°C or at -20°C if preferred.
	This product should be stored undiluted.
	Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA1743 10040
Regulatory	For research purposes only

## **Related Products**

## **Recommended Secondary Antibodies**

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

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

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