

Datasheet: MCA1743

Description:	MOUSE ANTI HUMAN MUCIN 2		
Specificity:	MUCIN 2		
Other names:	MUC-2		
Format:	Purified		
Product Type:	Monoclonal Antibody		
Clone:	996/1		
lsotype:	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 www.biorad-antibodies.com/protocols.

Flow Cytometry (1)
Immunohistology - Frozen
Immunohistology - Paraffin
ELISA
Immunoprecipitation
Western Blotting
Where this product has non- necessarily exclude its us a guide only. It is recommon system using appropriate (1) Membrane permeabi Leucoperm (Product Co

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative	0.09% sodium azide (NaN ₃)

Stabilisers

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> Related reagents			
	Entrez Gene: <u>4583</u> MUC2 <u>Related reagents</u>			
Synonyms	SMUC			
RRID	AB_2148835			
Fusion Partners	Spleen cells from immunized 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 10µl of the suggested working dilution to label $1x10^6$ cells in $100µl$			
Histology Positive Control Tissue	Normal human colon			
References	 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> 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> 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> 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> 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. (2): 413-8. 6. Uray, K. <i>et al.</i> (2000) Effect of D-amino acid substitution in a specific monoclonal antibody recognition. <u>Arch Biochem Bioph</u> 7. Uray, K. <i>et al.</i> (1999) Effect of solution conformation on antik core epitope from gastrointestinal mucin (MUC2). <u>Arch Biochem</u> 	mucin 2 epitope on mucin- ys. 378 (1): 25-32. pody recognition of a protein	
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.		
	Avoid repeated freezing and thawing as this may denature the frost-free freezers is not recommended.	antibody. Storage in	
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

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

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-rad.	.com	Email: antibody_sales_uk@bio-rac	d.com	Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M411296:221102'

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