

Datasheet: MCA1743A647

Description:	MOUSE ANTI HUMAN MUCIN 2:Alexa Fluor® 647
Specificity:	MUCIN 2
Other names:	MUC-2
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	996/1
Isotype:	IgG1
Quantity:	100 TESTS/1ml

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

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 Alexa Fluor® 647 - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	Alexa Fluor®647	650	665
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% sodium azide (NaN ₃)		
Stabilisers	1% bovine serum albumin		

Approx. Protein Concentrations	IgG concentration 0.05 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
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. Uray, K. <i>et al.</i> (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. Uray, K. <i>et al.</i> (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.

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/MCA1743A647>
10041

Regulatory For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA928A647\)](#)

Recommended Useful Reagents

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

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

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