

Datasheet: MCA1742A647 BATCH NUMBER 1807

Description: MOUSE ANTI HUMAN CD227:Alexa Fluor®		
Specificity:	CD227	
Other names:	CA 15-3, MUCIN 1	
Format:	ALEXA FLUOR® 647	
Product Type:	Monoclonal Antibody	
Clone:	C595 (NCRC48)	
Isotype:	lgG3	
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 <u>www.bio-rad-antibodies.com/protocols</u> .				
		Yes No	Not Determined	Suggested Dilution	
	Flow Cytometry	•		Neat	
	Where this antibody has	s not been tested fo	r use in a particular tec	hnique this does not	
necessarily exclude its use in such procedures. It is recommended the				that the user titrates	
	the antibody for use in their own system using appropriate negative/positive conti				
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 A				
Buffer Solution	Phosphate buffered saline				
Preservative 0.09% Sodium Azide (NaN ₃)					
Stabilisers	1% Bovine Serum Albur	min			
Approx. Protein Concentrations	IgG concentration 0.05 mg/ml				

Immunogen	Urinary MUC-1 mucin.
External Database Links	UniProt: <u>P15941</u> <u>Related reagents</u> Entrez Gene: <u>4582</u> MUC1 <u>Related reagents</u>
Synonyms	PUM
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of a mouse myeloma cell line.
Specificity	Mouse anti Human CD227 antibody, clone C595 (NCRC48) recognizes CD227, also known as mucin 1 which is a breast cancer associated mucin encoded by the Muc-1 gene. Mucins are a family of high molecular weight, heavily glycosylated proteins (glycoconjugates) produced by many epithelial tissues in vertebrates. CD227 is expressed on most secretory epithelium, including mammary gland and some hematopoietic cells. This protein is overexpressed abundantly in >90% breast carcinomas and metastases. Mouse anti Human CD227 antibody, clone C595 recognizes the peptide epitope ARG-PRO-ALA-PRO within the protein core of the mucin.
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul
References	 Price, M.R. <i>et al.</i> (1990) Immunological and structural features of the protein core of human polymorphic epithelial mucin. <u>Mol Immunol. 27 (8): 795-802.</u> Price, M.R. <i>et al.</i> (1990) C595a monoclonal antibody against the protein core of human urinary epithelial mucin commonly expressed in breast carcinomas. <u>Br J Cancer</u>. <u>61 (5): 681-6.</u> Price, M.R. <i>et al.</i> (1991) Purification of anti-epithelial mucin monoclonal antibodies by epitope affinity chromatography. <u>J Immunol Methods.</u> <u>139 (1): 83-90.</u> Denton, G. <i>et al.</i> (1995) Primary sequence determination and molecular modelling of the variable region of an antiMUC1 mucin monoclonal antibody. <u>Eur J Cancer.</u> <u>31A (2): 214-21.</u> Denton, G. <i>et al.</i> (1997) Production and characterization of a recombinant anti-MUC1 scFv reactive with human carcinomas. <u>Br J Cancer.</u> <u>76 (5): 614-21.</u> Murray, A. <i>et al.</i> (2001) Production and characterization of 188Re-C595 antibody for radioimmunotherapy of transitional cell bladder cancer. <u>J Nucl Med.</u> <u>42: 726-32.</u> Hisatsune, A. <i>et al.</i> (2005) Antibodies against tumor cell glycolipids and proteins, but not mucins, mediate complement-dependent cytotoxicity. <u>J Immunol.</u> <u>174: 5706-12.</u> Huang, D.M. <i>et al.</i> (2004) Modulation of anti-adhesion molecule MUC-1 is associated with arctiin-induced growth inhibition in PC-3 cells. <u>Prostate.</u> 2004 May 15;59(3): 260-7.

Storage Store at +4°C or at -20°C if preferred.

	Storage in frost-free freezers is not recommended. This product should be stored undiluted. This product is photosensitive and should be protected from light. 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				
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Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA1742A647 10041				
Regulatory	For research purposes only				

Related Products

Recommended Useful Reagents

HUMAN SEROBLOCK	(BUF070A)
HUMAN SEROBLOCK	(BUF070B)

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-ra	d.com	Email: antibody_sales_uk@bio-ra	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 'M344313:190111'

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