

Datasheet: MCA2344A488

BATCH NUMBER 148968

Description:	MOUSE ANTI HUMAN CD221:Alexa Fluor® 488		
Specificity:	CD221		
Other names:	IGF-1 RECEPTOR		
Format:	ALEXA FLUOR® 488		
Product Type:	Monoclonal Antibody		
Floduct Type.	Monocional Antibody		
Clone:	1H7		
	•		

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 - 1/5
	Where this antibody has not been tested for use in a particular technique this do necessarily exclude its use in such procedures. Suggested working dilutions are a guide only. It is recommended that the user titrates the antibody for use in the system using appropriate negative/positive controls.				
Target Species	Human				
Product Form	Purified IgG conjugated to Alexa Fluor® 488 - liquid				
Max Ex/Em	Fluorophore	Excitation Ma	ax (nm)	Emission Max (nm)	
	Alexa Fluor®488	495	. ,	519	-
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant				
Buffer Solution	Phosphate buffered saline				
Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Albumin				
Approx. Protein	IgG concentration 0.05	mg/ml			

Concentrations

Immunogen	Purified human placental IGF-I receptor.
External Database Links	UniProt: <u>P08069</u> <u>Related reagents</u> Entrez Gene: <u>3480</u> IGF1R <u>Related reagents</u>
RRID	AB_566645
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the SP2/0 myeloma cell line.
Specificity	 Mouse anti Human CD221 antibody, clone 1H7 recognizes human CD221, a ~155 kDa receptor tyrosine kinase, also known as Insulin-like growth factor I receptor (IGF-I Receptor). CD221 is composed of two extracellular alpha-subunits and two transmembrane beta-subunits. Clone 1H7 recognizes an epitope in the alpha subunits of CD221, demonstrated by western blotting (Li <i>et al.</i>1993). CD221 is expressed in a range of tissues, including kidney, liver, placenta, mammary gland, brain, ovary and skin. The ligands for CD221 include IGF-I and IGF-II, which bind to CD221 and activate tyrosine kinase activity, resulting in phosphorylation of several intracellular signaling proteins. Clone 1H7 is reported to partially block binding of IGF-I and IGF-II to CD221 (Li
Flow Cytometry	<i>et al.</i> 1993). Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
r low oytometry	Ose four of the suggested working dilution to laber 10° cells in 10001.
References	 Li, S.L. <i>et al.</i> (1993) Two new monoclonal antibodies against the alpha subunit of the human insulin-like growth factor-I receptor. <u>Biochem Biophys Res Commun. 196 (1): 92-8.</u> Beauvais, D.M. & Rapraeger, A.C. (2010) Syndecan-1 couples the insulin-like growth factor-1 receptor to inside-out integrin activation. <u>J Cell Sci. 123 (Pt 21): 3796-807.</u> Krieger, C.C. <i>et al.</i> (2016) Thyrotropin/IGF-1 receptor crosstalk in Graves' ophthalmopathy pathogenesis. <u>J Clin Endocrinol Metab. Apr 4: jc20161315. [Epub ahead of print]</u> van Valen, F. <i>et al.</i> (2012) A Novel Role of IGF1 in Apo2L/TRAIL-Mediated Apoptosis of Ewing Tumor Cells. <u>Sarcoma. 2012: 782970.</u>
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. This product is photosensitive and should be protected from light.

	Avoid repeated freezing and thawing as this may denature the product contain a precipitate we recommend microcentrifugation	•
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/MCA2344A488 10041	
Regulatory	For research purposes only	

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 488 (MCA928A488)

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-rad.com		Email: antibody_sales_uk@bio-rad.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 'M366674:200529'

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