

Datasheet: MCA2344PE BATCH NUMBER 150287

Description:	MOUSE ANTI HUMAN CD221:RPE
Specificity:	CD221
Other names:	IGF-1 RECEPTOR
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	1H7
Isotype:	lgG1
Quantity:	100 TESTS

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-</u> rad-antibodies.com/protocols.					
		Yes N	o N	ot Determined	Suggested Dilution	
	Flow Cytometry	•			Neat	
	Where this antibody han necessarily exclude its a guide only. It is recomes system using appropria	s use in such pro mmended that th	cedures. S ne user titra	Suggested working ates the antibody	g dilutions are given as	
Target Species	Human					
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - Iyophilized					
Reconstitution	Reconstitute with 1 ml distilled water					
Max Ex/Em	Fluorophore	Excitation Max	(nm) Emis	ssion Max (nm)		
	RPE 488nm laser	496	. ,	578		
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant					
Buffer Solution	Phosphate buffered sa	lline				
Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum /	Albumin				

	5% Sucrose
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_566646
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).
	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 <u>et al.1993</u>).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
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	Prior to reconstitution store at +4°C. Following reconstitution store at +4°C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be
	protected from light. 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 #20487 available at: https://www.bio-rad-antibodies.com/SDS/MCA2344PE 20487
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:RPE (MCA928PE)

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	ad.com	Email: antibody_sales_uk@bio-r	ad.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 'M375465:210104'

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