

Datasheet: MCA2344EL BATCH NUMBER 166869

MOUSE ANTI HUMAN CD221:Low Endotoxin **Description: Specificity:** CD221 Other names: **IGF-1 RECEPTOR** Format: Low Endotoxin **Product Type:** Monoclonal Antibody Clone: 1H7 Isotype: lgG1 Quantity: 0.5 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 <u>www.bio-rad-antibodies.com/protocols</u>.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry				1/10
Immunohistology - Frozen			•	
Immunohistology - Paraffin (1)	•			1/10 - 1/40
ELISA			•	
Immunoprecipitation			•	
Western Blotting				
Functional Assays				

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)This product requires protein digestion pre-treatment of paraffin sections e.g. trypsin or pronase.

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 Stabilisers	None present	
Carrier Free	Yes	
Endotoxin Level	<0.01 EU/µg	
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml	
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_566648	
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the SP2/0 mye cell line.	eloma
Specificity	Mouse anti Human CD221 antibody, clone 1H7 recognizes human CD221, a ~7 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 sub CD221, demonstrated by western blotting (Li <i>et al.</i> 1993).	units of
	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 signalin proteins. Clone 1H7 is reported to partially block binding of IGF-I and IGF-II to CD <u>et al.1993</u>).	ng
Flow Cytometry	Use 10 μ l of the suggested working dilution to label 10 ⁶ cells in 100 μ l	
Histology Positive Control Tissue	Human pancreas or placenta	
References	 Li, S.L. <i>et al.</i> (1993) Two new monoclonal antibodies against the alpha subunit human insulin-like growth factor-I receptor. <u>Biochem Biophys Res Commun. 196 (</u> Beauvais, D.M. & Rapraeger, A.C. (2010) Syndecan-1 couples the insulin-like grace factor-1 receptor to inside-out integrin activation. <u>J Cell Sci. 123 (Pt 21): 3796-807</u> 	<u>(1): 92-8.</u> growth

	 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 -20°C only. This product should be stored undiluted. Storage in frost-free freezers is not recommended. 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
Health And Safety Information	Material Safety Datasheet documentation #10162 available at: https://www.bio-rad-antibodies.com/SDS/MCA2344EL 10162
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

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

MOUSE IgG1 NEGATIVE CONTROL:Low Endotoxin (MCA928EL)

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 'M422742:231003'

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