

Datasheet: MCA2048APC

Description:	MOUSE ANTI HUMAN CD222:APC
Specificity:	CD222
Other names:	IGF-2 RECEPTOR
Format:	APC
Product Type:	Monoclonal Antibody
Clone:	MEM-238
Isotype:	IgG1
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 www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry (1)	■			neat

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

(1)Membrane permeabilisation is required for this application. Bio-Rad recommends the use of Leucoperm™ (Product Code [BUF09](#)) for this purpose.

Target Species	Human		
Species Cross Reactivity	Reacts with: Rhesus Monkey N.B. Antibody reactivity and working conditions may vary between species.		
Product Form	Purified IgG conjugated to Allophycocyanin (APC) - lyophilised		
Reconstitution	Reconstitute with 1ml distilled water		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	APC	650	661
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% Sodium Azide		
Stabilisers	1% Bovine Serum Albumin		
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml		

Immunogen	Recombinant vaccinia virus containing CD222.
External Database Links	UniProt: P11717 Related reagents Entrez Gene: 3482 IGF2R Related reagents
Synonyms	MPRI
Specificity	Mouse anti Human CD222 antibody, clone MEM-238 recognizes human CD222, a 250 kDa transmembrane protein originally identified as the IGF II receptor. CD222 is ubiquitously expressed and is involved with internalization of a variety of ligands. Mouse anti Human CD222 antibody, clone MEM-238 recognizes an epitope located in the region between extracellular domains 2 and 5 (aa 192-697) of CD222 (Roberts et al. 2010). CD222 is primarily expressed intracellularly with a small percentage of molecules being located at the cell surface (5 - 10%).
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul.
References	1. Roberts, R.C. <i>et al.</i> (2010) Mistargeting of SH3TC2 away from the recycling endosome causes Charcot-Marie-Tooth disease type 4C. Hum Mol Genet. 19: 1009-18. 2. Adachi, A. <i>et al.</i> (2010) Golgi-associated GSK3beta regulates the sorting process of post-Golgi membrane trafficking. J Cell Sci. 123: 3215-25. 3. Godar, S. <i>et al.</i> (2002) CD222 (Mannose-6 phosphate / insulin-like growth factor II-receptor) Summary and Workshop Report. In Leucocyte Typing VII: White Cell Differentiation Antigens. Edited by Mason, D. <i>et al.</i> Oxford University Press. pp482-485. 4. Rezgui, D. <i>et al.</i> (2009) Structure and function of the human Gly1619Arg polymorphism of M6P/IGF2R domain 11 implicated in IGF2 dependent growth. J Mol Endocrinol. 42: 341-56. 5. McCormick, P.J. <i>et al.</i> (2008) Palmitoylation controls recycling in lysosomal sorting and trafficking. Traffic. 9: 1984-97. 6. Leksa, V. <i>et al.</i> (2002) The N terminus of mannose 6-phosphate/insulin-like growth factor 2 receptor in regulation of fibrinolysis and cell migration. J Biol Chem. 277 (43): 40575-82. 7. Osborne, D.G. <i>et al.</i> (2015) Monitoring receptor trafficking following retromer and WASH deregulation. Methods Cell Biol. 130: 199-213.
Storage	Prior to reconstitution store at +4°C. After 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.
Shelf Life	18 months from date of reconstitution.
Health And Safety Information	Material Safety Datasheet documentation #10075 available at: 10075: https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:APC \(MCA928APC\)](#)

Recommended Useful Reagents

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

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

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