

Datasheet: MCA2048T

BATCH NUMBER 1711

Description:	MOUSE ANTI HUMAN CD222
Specificity:	CD222
Other names:	IGF-2 RECEPTOR
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	MEM-238
Isotype:	IgG1
Quantity:	25 µg

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)	▪			1/25 - 1/50
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	

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	<p>Reacts with: Rhesus Monkey</p> <p>N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.</p>
Product Form	Purified IgG - liquid
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
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Recombinant vaccinia virus containing CD222.
External Database Links	<p>UniProt: P11717 Related reagents</p> <p>Entrez Gene: 3482 IGF2R Related reagents</p>
Synonyms	MPRI
RRID	AB_2233478
Specificity	<p>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.</p> <p>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 <i>et al.</i> 2010).</p> <p>CD222 is primarily expressed intracellularly with a small percentage of molecules being located at the cell surface (5 - 10%).</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.
References	<ol style="list-style-type: none"> 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. *et al.* (2015) Monitoring receptor trafficking following retromer and WASH deregulation. [Methods Cell Biol. 130: 199-213.](#)

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. 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 #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA2048T>
10040

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...) [HRP](#)
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
Goat Anti Mouse IgG (STAR76...) [RPE](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#),
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),
[FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

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

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