

Datasheet: MCA2048T

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	Reacts with: Rhesus Monkey N.B. Antibody reactivity and working conditions may vary between species.
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**

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 1x10⁶ cells in 100ul.

References

1. Roberts, R.C. *et al.* (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. *et al.* (2010) Golgi-associated GSK3beta regulates the sorting process of post-Golgi membrane trafficking. [J Cell Sci. 123: 3215-25.](#)
3. Godar, S. *et al.* (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. *et al.* Oxford University Press. pp482-485.
4. Rezgui, D. *et al.* (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. *et al.* (2008) Palmitoylation controls recycling in lysosomal sorting and trafficking. [Traffic. 9: 1984-97.](#)
6. Leksa, V. *et al.* (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.

Shelf Life

18 months from date of despatch.

**Health And Safety
Information**

Material Safety Datasheet documentation #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®549 , DyLight®649 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Human Anti Mouse IgG1 (HCA036...)	HRP

Recommended Negative Controls

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

North & South America	Tel: +1 800 265 7376 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
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