

Datasheet: MCA2295

Description:	RAT ANTI MOUSE CD102
Specificity:	CD102
Other names:	ICAM-2
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	mIC2/4 (3C4)
Isotype:	IgG2a
Quantity:	0.25 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 www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	■			1/50 - 1/200
Immunohistology - Frozen			■	
Immunohistology - Paraffin			■	
ELISA			■	
Immunoprecipitation	■			
Western Blotting			■	

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

Target Species	Mouse
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
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	COS cells transfected with murine ICAM-2.

**External Database
Links**

UniProt:

[P35330](#)

[Related reagents](#)

Entrez Gene:

[15896](#)

Icam2

[Related reagents](#)

Synonyms

Icam-2

Fusion Partners

Spleen cells from immunised Lewis rats were fused with cells of the Mouse P3X63Ag8.653 myeloma cell line.

Specificity

Rat anti Mouse CD102 antibody, clone mIC2/4 (3C4) recognizes murine intercellular adhesion molecule-2 (ICAM-2), also known as CD102. Murine CD102 is a glycosylated cell surface protein that is broadly expressed on most leucocytes and is constitutively expressed on endothelial cells. CD102 interacts with the CD11a/CD18 integrin LFA-1. Reports suggest that CD102 may play a role in lymphocyte re-circulation and T-cell activation.

Rat anti Mouse CD102 antibody, clone mIC2/4 is reported to inhibit interactions between CD102 and LFA-1 ([Xuet *et al.* 1996](#)).

Flow Cytometry

Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul.

References

1. Soede, R.D. *et al.* (1999) LFA-1 to LFA-1 signals involve zeta-associated protein-70 (ZAP-70) tyrosine kinase: relevance for invasion and migration of a T cell hybridoma. [J Immunol. 163 \(8\): 4253-61.](#)
2. Jones, D.T. *et al.* (2013) Endogenous ribosomal protein L29 (RPL29): a newly identified regulator of angiogenesis in mice. [Dis Model Mech. 6 \(1\): 115-24.](#)

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

Rabbit Anti Rat IgG (STAR16...)

[DyLight®800](#)

Goat Anti Rat IgG (STAR73...)

[RPE](#)

Rabbit Anti Rat IgG (STAR21...)

[HRP](#)

Rabbit Anti Rat IgG (STAR17...)

[FITC](#)

Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...) [DyLight®549](#), [DyLight®649](#), [DyLight®800](#)

Goat Anti Rat IgG (STAR131...) [Alk. Phos.](#), [Biotin](#)

Goat Anti Rat IgG (STAR69...) [FITC](#)

Goat Anti Rat IgG (STAR72...) [HRP](#)

Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL \(MCA1212\)](#)

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'M315610:180503'

Printed on 05 May 2018

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