

## Datasheet: MCA1311

<b>Description:</b>	MOUSE ANTI HUMAN CD82
<b>Specificity:</b>	CD82
<b>Other names:</b>	KAI1
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	B-L2
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	2 ml

## 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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	
Immunofluorescence	▪			

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.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by ion exchange chromatography
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide 1% Bovine Serum Albumin

<b>Immunogen</b>	CD82 transfected murine mastocytoma cell line P815.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P27701</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">3732</a>    CD82    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	KAI1, SAR2, ST6, TSPAN27
<b>RRID</b>	AB_2291423
<b>Fusion Partners</b>	Spleen cells from immunized BALB/c (Iffa Credo) mice were fused with cells of the mouse X63/Ag.8653 myeloma cell line.
<b>Specificity</b>	<b>Mouse anti Human CD82 antibody, clone B-L2</b> recognizes human CD82, also known as C33 antigen, Metastasis suppressor Kangai-1, Suppressor of tumorigenicity 6 protein or Tetraspanin-27. CD82 is a 267 amino acid ~50-53 kDa multiple pass transmembrane glycoprotein and member of the tetraspanin family expressed by T cells, NK cells, monocytes, granulocytes and platelets.
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Ono, M. <i>et al.</i> (1999) Motility inhibition and apoptosis are induced by metastasis-suppressing gene product CD82 and its analogue CD9, with concurrent glycosylation. <a href="#">Cancer Res. 59 (10): 2335-9.</a></li> <li>2. Mazurov, D. <i>et al.</i> (2006) HTLV-1 Gag protein associates with CD82 tetraspanin microdomains at the plasma membrane. <a href="#">Virology. 346 (1): 194-204.</a></li> <li>3. Todeschini AR <i>et al.</i> (2007) Ganglioside GM2-tetraspanin CD82 complex inhibits met and its cross-talk with integrins, providing a basis for control of cell motility through glycosynapse. <a href="#">J Biol Chem. 282 (11): 8123-33.</a></li> <li>4. Mazurov, D. <i>et al.</i> (2007) The inner loop of tetraspanins CD82 and CD81 mediates interactions with human T cell lymphotropic virus type 1 Gag protein. <a href="#">J Biol Chem. 282 (6): 3896-903.</a></li> <li>5. Wang, H. <i>et al.</i> (2012) N-Glycosylation pattern of recombinant human CD82 (KAI1), a tumor-associated membrane protein. <a href="#">J Proteomics. 75 (4): 1375-85.</a></li> <li>6. Zuidserwoude M <i>et al.</i> (2015) The tetraspanin web revisited by super-resolution microscopy. <a href="#">Sci Rep. 5: 12201.</a></li> <li>7. Jones, E.L. <i>et al.</i> (2016) Dendritic Cell Migration and Antigen Presentation Are Coordinated by the Opposing Functions of the Tetraspanins CD82 and CD37. <a href="#">J Immunol. 196 (3): 978-87.</a></li> </ol>
<b>Storage</b>	<p>Store at +4°C or at -20°C if preferred.</p> <p>This product should be stored undiluted.</p> <p>Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing</p>

as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10041 available at: 10041: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf</a>
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">Alk. Phos.</a> , <a href="#">HRP</a>
Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Rabbit Anti Mouse IgG (STAR8...)	<a href="#">DyLight®800</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight®488</a> , <a href="#">DyLight®680</a> , <a href="#">DyLight®800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>

### Recommended Negative Controls

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

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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