

Datasheet: MCA1311

BATCH NUMBER 148372

Description:	MOUSE ANTI HUMAN CD82
Specificity:	CD82
Other names:	KAI1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	B-L2
Isotype:	IgG1
Quantity:	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.

	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.

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

Immunogen	CD82 transfected murine mastocytoma cell line P815.
External Database Links	<p>UniProt: P27701 Related reagents</p> <p>Entrez Gene: 3732 CD82 Related reagents</p>
Synonyms	KAI1, SAR2, ST6, TSPAN27
RRID	AB_2291423
Fusion Partners	Spleen cells from immunized BALB/c (Iffa Credo) mice were fused with cells of the mouse X63/Ag.8653 myeloma cell line.
Specificity	Mouse anti Human CD82 antibody, clone B-L2 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.
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none"> 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. Cancer Res. 59 (10): 2335-9. 2. Mazurov, D. <i>et al.</i> (2006) HTLV-1 Gag protein associates with CD82 tetraspanin microdomains at the plasma membrane. Virology. 346 (1): 194-204. 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. J Biol Chem. 282 (11): 8123-33. 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. J Biol Chem. 282 (6): 3896-903. 5. Wang, H. <i>et al.</i> (2012) N-Glycosylation pattern of recombinant human CD82 (KAI1), a tumor-associated membrane protein. J Proteomics. 75 (4): 1375-85. 6. Zuidscherwoude M <i>et al.</i> (2015) The tetraspanin web revisited by super-resolution microscopy. Sci Rep. 5: 12201. 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. J Immunol. 196 (3): 978-87.
Storage	<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.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA1311 10041
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
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 (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , 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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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)
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