

Datasheet: MCA1311

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	UniProt: P27701 Related reagents

Entrez Gene:[3732](#) CD82 [Related reagents](#)

Synonyms	KAI1, SAR2, ST6, TSPAN27
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	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. Zuidschewoude 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	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 #10041 available at: 10041: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.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](#)
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](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®549](#),
[DyLight®649](#), [DyLight®680](#), [DyLight®800](#),
[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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