

Datasheet: MCA2124

Description:	MOUSE ANTI HUMAN CD229
Specificity:	CD229
Other names:	LY9, SLAMF3
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	HLy9.1.25
Isotype:	IgG1
Quantity:	0.2 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 - 1/100
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting			▪	

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

Target Species	Human
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 (NaN ₃)

Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Mouse pre-B cell line 300.19 transfected with CD229 cDNA.
External Database Links	<p>UniProt: Q9HBG7 Related reagents</p> <p>Entrez Gene: 4063 LY9 Related reagents</p>
RRID	AB_324166
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS-1 myeloma cell line.
Specificity	<p>Mouse anti Human CD229 antibody, clone HLy9.1.25 recognizes the human cell surface antigen CD229 also known as T-lymphocyte surface antigen Ly-9 or SLAM family member 3. CD229 is a 608 amino acid single pass type I transmembrane glycoprotein of ~120 kDa as evaluated by immunoprecipitation of cells transfected with the full length human CD229 cDNA. However immunoprecipitation of CD229 from Daudi cell lysates with dclone HLy9.1.25 yields bands of 120 kDa corresponding to the full length CD229 and a ~100 kDa band attributed to an alternatively spliced isoform lacking the fourth Ig-like domain (de la Fuente et al. 2001).</p> <p>Human CD299 is expressed on thymocytes, T-cells and B-cells (Del Valle et al. 2003). CD229 has also been described as a tumor associated antigen in chronic lymphocytic leukemia (Bund et al. 2006) and has been implicated in the development of spontaneous autoantibody production to nuclear antigens in mice and is potentially a target for the treatment of autoimmunity (de Salort et al. 2013).</p>
Flow Cytometry	Use 10µl of the suggested working dilution to label 10 ⁶ cells in 100µl or 100µl whole blood
References	<ol style="list-style-type: none"> 1. Cartier, F. <i>et al.</i> (2014) The expression of the hepatocyte SLAMF3 (CD229) receptor enhances the hepatitis C virus infection. PLoS One. 9: e99601. 2. Marcq, I. <i>et al.</i> (2013) Identification of SLAMF3 (CD229) as an inhibitor of hepatocellular carcinoma cell proliferation and tumour progression. PLoS One. 8 (12): e82918. 3. Margraf, S. <i>et al.</i> (2015) A polymorphism in a phosphotyrosine signalling motif of CD229 (Ly9, SLAMF3) alters SH2 domain binding and T-cell activation. Immunology. 146 (3): 392-400. 4. Fouquet, G. <i>et al.</i> (2020) Mammary SLAMF3 Regulates Store-Operated Ca²⁺ Entry and Migration Through STIM1 in Breast Cancer Cells and Cell Lines Journal of Cancer Science and Clinical Therapeutics. 04 (04) [Epub ahead of print].

Further Reading 1. Sayós J *et al.* (2001) Cell surface receptors Ly-9 and CD84 recruit the X-linked lymphoproliferative disease gene product SAP. [Blood. 97 \(12\): 3867-74.](#)

Storage This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee 12 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 (STAR77...) [HRP](#)
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (STAR76...) [RPE](#)
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 (STAR13...) [HRP](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

Recommended Negative Controls

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

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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
'M412949:221117'

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