

## Datasheet: MCA2124

<b>Description:</b>	MOUSE ANTI HUMAN CD229
<b>Specificity:</b>	CD229
<b>Other names:</b>	LY9, SLAMF3
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	HLy9.1.25
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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 antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. 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 affinity chromatography on Protein G from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide
<b>Carrier Free</b>	Yes
<b>Approx. Protein</b>	IgG concentration 1.0 mg/ml

## Concentrations

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**Immunogen** Mouse pre-B cell line 300.19 transfected with CD229 cDNA.

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## External Database Links

### UniProt:

[Q9HBG7](#) [Related reagents](#)

### Entrez Gene:

[4063](#) LY9 [Related reagents](#)

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**RRID** AB\_324166

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**Fusion Partners** Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS-1 myeloma cell line.

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**Specificity** **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 clone 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](#)).

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](#)).

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**Flow Cytometry** Use 10ul of the suggested working dilution to label  $10^6$  cells in 100ul or 100ul whole blood.

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## References

1. Cartier, F. *et al.* (2014) The expression of the hepatocyte SLAMF3 (CD229) receptor enhances the hepatitis C virus infection. [PLoS One. 9: e99601.](#)
  2. Marcq, I. *et al.* (2013) Identification of SLAMF3 (CD229) as an inhibitor of hepatocellular carcinoma cell proliferation and tumour progression. [PLoS One. 8 \(12\): e82918.](#)
  3. Margraf, S. *et al.* (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. *et al.* (2020) Mammary SLAMF3 Regulates Store-Operated Ca<sup>2+</sup> Entry and Migration Through STIM1 in Breast Cancer Cells and Cell Lines [Journal of Cancer Science and Clinical Therapeutics. 04 \(04\) \[Epub ahead of print\].](#)
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**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.](#)

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**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.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10040 available at:  
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)  
Goat Anti Mouse IgG (STAR77...) [HRP](#)  
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)  
Rabbit Anti Mouse IgG (STAR8...) [DyLight@800](#)  
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)  
Goat Anti Mouse IgG (STAR76...) [RPE](#)  
Goat Anti Mouse IgG (STAR70...) [FITC](#)  
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)  
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)  
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@680](#),  
[DyLight@800](#), [FITC](#), [HRP](#)

### Recommended Negative Controls

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

**North & South** Tel: +1 800 265 7376

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