

## Datasheet: MCA6121Z

**BATCH NUMBER 153849**

<b>Description:</b>	MOUSE ANTI HUMAN CD150:Preservative Free
<b>Specificity:</b>	CD150
<b>Other names:</b>	SLAM
<b>Format:</b>	Preservative Free
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	SLAM.4
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.1 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).

	<b>Yes</b>	<b>No</b>	<b>Not Determined</b>	<b>Suggested Dilution</b>
Flow Cytometry	▪			
Immunoprecipitation	▪			
Immunocytochemistry	▪			

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.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant and 0.2 µm filter sterilized
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	None present
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml

**Immunogen** Human CD150-transfected 300.19 cells

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**External Database**

**Links**

**UniProt:**

[Q13291](#)

[Related reagents](#)

**Entrez Gene:**

[6504](#)

SLAMF1

[Related reagents](#)

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**Synonyms**

SLAM

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**Specificity**

**Mouse anti Human CD150 antibody, clone SLAM.4** recognizes CD150 also known as signaling lymphocyte activation molecule (SLAM), is a member of the immunoglobulin superfamily. CD150 is expressed in dendritic cells, Natural Killer (NK) cells, B and T cells ([Bhattacharjee and Yadava 2018](#)).

CD150 is a membrane phosphoglycoprotein which contains 2 extracellular domains corresponding to a variable and constant region, a general feature of the Ig superfamily ([Cocks et al. 1995](#)). CD150 also has a cytoplasmic domain which contains 3 unique tyrosine motifs with a conserved TxYxxV sequence. This tyrosine motif is the binding domain for SLAM-associated protein (SAP) which form a complex together ([Sayos et al 1998](#), [Poy et al. 1999](#)). This complex plays a role in the regulation of Natural killer (NK) and T cell development. Mutations to SAP in humans results in X-linked lymphoproliferative disease which is a fatal immunological disorder ([Coffey et al. 1998](#)). Activation of CD150 co-activates T- or B-lymphocytes responses and plays a role in bidirectional T-B cell stimulation ([Carballido et al. 1997](#)). It can also regulate NK and T cell development, B cell regulation and antibody production/isotype switching ([Veillette 2006](#)). CD150 is also the receptor that the measles virus recognizes ([Tatsuo et al. 2000](#)).

The SLAM.4 clone has been used in flow cytometry to analyze the cell distribution of CD150 on leucocytes and lymphocytes as well as to distinguish between subsets of CD4+ and CD8+ T lymphocytes ([Romero et al. 2001](#)).

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**Purity**

>95% by SDS PAGE

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**Storage**

Store at +4°C. DO NOT FREEZE.

This product should be stored undiluted.

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**Guarantee**

12 months from date of despatch

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**Health And Safety Information**

Material Safety Datasheet documentation #10162 available at: <https://www.bio-rad-antibodies.com/SDS/MCA6121Z>  
10162

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**Regulatory**

For research purposes only

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## Related Products

## Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">Alk. Phos.</a> , <a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight®488</a> , <a href="#">DyLight®550</a> , <a href="#">DyLight®650</a> , <a href="#">DyLight®680</a> , <a href="#">DyLight®800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</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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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)  
'M353888:190531'

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