

## Datasheet: MCA6121PE

**BATCH NUMBER 156042**

<b>Description:</b>	MOUSE ANTI HUMAN CD150:RPE
<b>Specificity:</b>	CD150
<b>Other names:</b>	SLAM
<b>Format:</b>	RPE
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	SLAM.4
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	100 TESTS/1ml

### 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	▪			Neat

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 conjugated to R. Phycoerythrin (RPE) - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	RPE 488nm laser	496	578
	RPE 561nm laser	546	578

<b>Preparation</b>	Purified IgG prepared by ion exchange chromatography from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative</b>	<0.1% Sodium Azide (NaN <sub>3</sub> )
<b>Stabilisers</b>	0.2% Bovine Serum Albumin
<b>Immunogen</b>	Human CD150-transfected 300.19 cells

**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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**Flow Cytometry**

Use 10ul of the undiluted reagent to label  $1 \times 10^6$  cells in 100ul

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**Storage**

Store at +4°C. DO NOT FREEZE.

This product should be stored undiluted. This product is photosensitive and should be protected from light.

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**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/MCA6121PE>  
10041

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**Regulatory**

For research purposes only

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## Related Products

## Recommended Negative Controls

### MOUSE IgG1 NEGATIVE CONTROL:RPE (MCA928PE)

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

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto: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](mailto: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](mailto:antibody_sales_de@bio-rad.com)

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)

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