

Datasheet: MCA6121PE

BATCH NUMBER 166814

Description:	MOUSE ANTI HUMAN CD150:RPE
Specificity:	CD150
Other names:	SLAM
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	SLAM.4
Isotype:	IgG1
Quantity:	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.

	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.

Target Species	Human
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Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - liquid
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Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE 488nm laser	496	578
	RPE 561nm laser	546	578

Preparation	Purified IgG prepared by ion exchange chromatography from tissue culture supernatant
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Buffer Solution	Phosphate buffered saline
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Preservative	<0.1% Sodium Azide (NaN ₃)
Stabilisers	0.2% Bovine Serum Albumin

Immunogen	Human CD150-transfected 300.19 cells
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**External Database
Links**

UniProt:

[Q13291](#) [Related reagents](#)

Entrez Gene:

[6504](#) SLAMF1 [Related reagents](#)

Synonyms

SLAM

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](#)).

Purity

>95% by SDS PAGE

Flow Cytometry

Use 10ul of the undiluted reagent to label 1×10^6 cells in 100ul

Storage

Store at +4°C. DO NOT FREEZE.

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

Guarantee

Guaranteed for 12 months from the date of despatch or until the date of expiry, whichever comes first. Please see label for expiry date.

**Health And Safety
Information**

Material Safety Datasheet documentation #10041 available at:
<https://www.bio-rad-antibodies.com/SDS/MCA6121PE>
10041

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:RPE \(MCA928PE\)](#)

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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
'M401918:220718'

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