

Datasheet: MCA6121Z

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

	Yes	No	Not Determined	Suggested Dilution
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.

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

Immunogen Human CD150-transfected 300.19 cells

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

Storage

Store at +4°C. DO NOT FREEZE.

This product should be stored undiluted.

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 #10162 available at:

<https://www.bio-rad-antibodies.com/SDS/MCA6121Z>

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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
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP

Recommended Negative Controls

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

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: 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	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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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

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