

## Datasheet: MCA2274A488T

<b>Description:</b>	RAT ANTI MOUSE CD150:Alexa Fluor® 488
<b>Specificity:</b>	CD150
<b>Other names:</b>	SLAM
<b>Format:</b>	ALEXA FLUOR® 488
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	9D1
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	25 TESTS/0.25ml

## 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 antibody 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 antibody for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Mouse						
<b>Product Form</b>	Purified IgG conjugated to Alexa Fluor® 488- liquid						
<b>Max Ex/Em</b>	<table border="1"> <thead> <tr> <th>Fluorophore</th> <th>Excitation Max (nm)</th> <th>Emission Max (nm)</th> </tr> </thead> <tbody> <tr> <td>Alexa Fluor®488</td> <td>495</td> <td>519</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	Alexa Fluor®488	495	519
Fluorophore	Excitation Max (nm)	Emission Max (nm)					
Alexa Fluor®488	495	519					
<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</b>	0.09% Sodium Azide						
<b>Stabilisers</b>	1% Bovine Serum Albumin						
<b>Approx. Protein Concentrations</b>	IgG concentration 0.05 mg/ml						
<b>Immunogen</b>	CHO cells stably transfected with mouse CD150						
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">Q9QUM4</a> <a href="#">Related reagents</a>						

**Entrez Gene:**

[27218](#) Slamf1 [Related reagents](#)

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**Synonyms**

Slam

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**Fusion Partners**

Spleen cells from immunised rats were fused with cells of a myeloma cell line.

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**Specificity**

**Rat anti Mouse CD150 antibody, clone 9D1** recognizes murine CD150, also known as signaling lymphocyte activation molecule (SLAM) . Murine CD150 is a 75 kDa cell surface glycoprotein that is expressed on T-cells and B-cells, and is upregulated on activated T-cells and stimulated macrophages. The extracellular domain of CD150 is the receptor for the measles virus ([Erlenhoefner et al. 2001](#)) and acts as a co-activator on T-cells and B-cells.

Rat anti Mouse CD150 antibody, clone 9D1 has functional activity ([Howie et al. 2002](#)).

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**Flow Cytometry**

Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells in 100ul.

The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity fc receptors. This may be reduced by using SeroBlock FcR ([BUF041A/B](#)).

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**References**

1. Howie, D. *et al.* (2002) The role of SAP in murine CD150 (SLAM)-mediated T-cell proliferation and interferon gamma production. [Blood. 100 \(8\): 2899-907.](#)
2. Desponts, C. *et al.* (2006) SHIP deficiency enhances HSC proliferation and survival but compromises homing and repopulation. [Blood. 107: 4338-45.](#)
3. Almolda, B. *et al.* (2015) Alterations in microglial phenotype and hippocampal neuronal function in transgenic mice with astrocyte-targeted production of interleukin-10. [Brain Behav Immun. 45: 80-97.](#)
4. Villacampa, N. *et al.* (2015) Astrocyte-targeted production of IL-10 induces changes in microglial reactivity and reduces motor neuron death after facial nerve axotomy. [Glia. 63 \(7\): 1166-84.](#)

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

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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**Shelf Life**

18 months from date of despatch.

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**Acknowledgements**

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**Health And Safety Information** Material Safety Datasheet documentation #10041 available at:  
10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Negative Controls

[RAT IgG1 NEGATIVE CONTROL:Alexa Fluor® 488 \(MCA1211A488\)](#)

### Recommended Useful Reagents

[MOUSE SEROBLOCK FcR \(BUF041A\)](#)

[MOUSE SEROBLOCK FcR \(BUF041B\)](#)

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