

## Datasheet: MCA2274A647

<b>Description:</b>	RAT ANTI MOUSE CD150:Alexa Fluor® 647
<b>Specificity:</b>	CD150
<b>Other names:</b>	SLAM
<b>Format:</b>	ALEXA FLUOR® 647
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	9D1
<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	■			

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>	Mouse		
<b>Product Form</b>	Purified IgG conjugated to Alexa Fluor® 647 - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	Alexa Fluor®647	650	665
<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 Stabilisers</b>	0.09% sodium azide (NaN <sub>3</sub> )		
	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>	<p><b>UniProt:</b>  <a href="#">Q9QUM4</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">27218</a>    Slamf1    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	Slam
<b>RRID</b>	AB_321144
<b>Fusion Partners</b>	Spleen cells from immunised rats were fused with cells of a myeloma cell line.
<b>Specificity</b>	<p><b>Rat anti Mouse CD150 antibody, clone 9D1</b> 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 (<a href="#">Erlenhoefer et al. 2001</a>) and acts as a co-activator on T-cells and B-cells.</p> <p>Rat anti Mouse CD150 antibody, clone 9D1 has functional activity (<a href="#">Howie et al. 2002</a>).</p>
<b>Flow Cytometry</b>	<p>Use 10µl of the suggested working dilution to label 10<sup>6</sup> cells in 100µl.</p> <p>The Fc region of monoclonal antibodies may bind to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR (<a href="#">BUF041A</a>/<a href="#">BUF041B</a>).</p>
<b>References</b>	<ol style="list-style-type: none"> <li>Howie, D. <i>et al.</i> (2002) The role of SAP in murine CD150 (SLAM)-mediated T-cell proliferation and interferon gamma production. <a href="#">Blood. 100 (8): 2899-907.</a></li> <li>Despots, C. <i>et al.</i> (2006) SHIP deficiency enhances HSC proliferation and survival but compromises homing and repopulation. <a href="#">Blood. 107: 4338-45.</a></li> <li>Almolda, B. <i>et al.</i> (2015) Alterations in microglial phenotype and hippocampal neuronal function in transgenic mice with astrocyte-targeted production of interleukin-10. <a href="#">Brain Behav Immun. 45: 80-97.</a></li> <li>Villacampa, N. <i>et al.</i> (2015) Astrocyte-targeted production of IL-10 induces changes in microglial reactivity and reduces motor neuron death after facial nerve axotomy. <a href="#">Glia. 63 (7): 1166-84.</a></li> </ol>
<b>Storage</b>	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.</p>
<b>Guarantee</b>	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/MCA2274A647>  
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**Regulatory** For research purposes only

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'M413908:221129'

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