

Datasheet: MCA2421A647

**BATCH NUMBER 1611**

<b>Description:</b>	MOUSE ANTI HUMAN CD244:Alexa Fluor® 647
<b>Specificity:</b>	CD244
<b>Format:</b>	ALEXA FLUOR® 647
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	2B4.69
<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 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</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>	CD244 Fusion protein.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">Q9BZW8</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">51744</a>    CD244    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	2B4
<b>Fusion Partners</b>	Spleen cells from immunised Balb/c mice were fused with cells of the NS-1 myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Human CD244 antibody, clone 2B4.69</b> recognizes the CD244 cell surface antigen, also known as natural killer receptor 2B4 (NKG2B4). CD244 is a 370 amino acid single pass type I transmembrane glycoprotein with two <a href="#">Ig-like V type</a> domains. CD244 is a member of the SLAM family of receptors which is expressed on natural killer (NK) cells, gamma delta T cells, CD14+ monocytes, and a subset of CD8+ T cells.</p> <p>CD244 was originally identified as an activating receptor on NK cells, although recent studies suggest that the receptor may have a wide range of activities including NK cell activation, costimulation, or even inhibition, depending on the cell type and stage of differentiation. The ligand of CD244 is <a href="#">CD48</a>, a GPI-anchored membrane protein also belonging to the SLAM family.</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label $1 \times 10^6$ cells in 100ul
<b>References</b>	<ol style="list-style-type: none"> <li>Romero, X. <i>et al.</i> (2005) CD229 (Ly9) lymphocyte cell surface receptor interacts homophilically through its N-terminal domain and relocalizes to the immunological synapse. <a href="#">J Immunol. 174 (11): 7033-42.</a></li> <li>Bengsch, B. <i>et al.</i> (2014) Restoration of HBV-specific CD8+ T cell function by PD-1 blockade in inactive carrier patients is linked to T cell differentiation. <a href="#">J Hepatol. 61 (6): 1212-9.</a></li> <li>Raziorrouh, B. <i>et al.</i> (2010) The Immunoregulatory Role of CD244 in Chronic Hepatitis B Infection and its Inhibitory Potential on Virus-Specific CD81 T-cell Function. <a href="#">Hepatology. 52: 1934-47.</a></li> <li>Boussaad, I. <i>et al.</i> (2011) Wild-type measles virus interferes with short-term engraftment of human CD34+ hematopoietic progenitor cells. <a href="#">J Virol. 85: 7710-8.</a></li> </ol>
<b>Storage</b>	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. This product is photosensitive and should be protected from light.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</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/MCA2421A647>  
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**Regulatory** For research purposes only

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## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA928A647\)](#)

### Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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