

Datasheet: MCA2421PE

Description:	MOUSE ANTI HUMAN CD244:RPE
Specificity:	CD244
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	2B4.69
Isotype:	IgG1
Quantity:	100 TESTS

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 - 1/10

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.

Target Species	Human		
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized		
Reconstitution	Reconstitute with 1.0 ml distilled water		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE 488nm laser	496	578
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% Sodium Azide		
Stabilisers	1%	Bovine Serum Albumin	
	5%	Sucrose	
Immunogen	CD244 Fusion protein.		

**External Database
Links**

UniProt:

[Q9BZW8](#) [Related reagents](#)

Entrez Gene:

[51744](#) CD244 [Related reagents](#)

Synonyms

2B4

RRID

AB_609586

Fusion Partners

Spleen cells from immunised Balb/c mice were fused with cells of the NS-1 myeloma cell line.

Specificity

Mouse anti Human CD244 antibody, clone 2B4.69 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 [Ig-like V type](#) 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.

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 [CD48](#), a GPI-anchored membrane protein also belonging to the SLAM family.

Flow Cytometry

Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.

References

1. Romero, X. *et al.* (2005) CD229 (Ly9) lymphocyte cell surface receptor interacts homophilically through its N-terminal domain and relocalizes to the immunological synapse. [J Immunol. 174 \(11\): 7033-42.](#)
2. Bengsch, B. *et al.* (2014) Restoration of HBV-specific CD8+ T cell function by PD-1 blockade in inactive carrier patients is linked to T cell differentiation. [J Hepatol. 61 \(6\): 1212-9.](#)
3. Raziou, B. *et al.* (2010) The Immunoregulatory Role of CD244 in Chronic Hepatitis B Infection and its Inhibitory Potential on Virus-Specific CD81 T-cell Function. [Hepatology. 52: 1934-47.](#)
4. Boussaad, I. *et al.* (2011) Wild-type measles virus interferes with short-term engraftment of human CD34+ hematopoietic progenitor cells. [J Virol. 85: 7710-8.](#)

Storage

Prior to reconstitution store at +4°C.

After reconstitution store at +4°C.

DO NOT FREEZE.

This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee

12 months from date of despatch

**Health And Safety
Information**

Material Safety Datasheet documentation #20487 available at:
20487: <https://www.bio-rad-antibodies.com/uploads/MSDS/20487.pdf>

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

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

Recommended Useful Reagents

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

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

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