

Datasheet: MCA4644PE

Description:	MOUSE ANTI HUMAN CD155:RPE
Specificity:	CD155
Other names:	POLIOVIRUS RECEPTOR
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	SKII.4
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

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 conjugated to R. Phycoerythrin (RPE) - lyophilized		
Reconstitution	Reconstitute with 1ml 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 (NaN ₃)		
Stabilisers	1% Bovine Serum Albumin 5% Sucrose		

Immunogen Human SK-N-S1 neuroblastoma cells.

External Database

Links

UniProt:

[P15151](#) [Related reagents](#)

Entrez Gene:

[5817](#) PVR [Related reagents](#)

Synonyms

PVS

RRID

AB_2269067

Specificity

Mouse anti Human CD155 antibody, clone SKII.4 recognizes human CD155, otherwise known as poliovirus receptor (PVR). CD155 is a 397 amino acid type I transmembrane glycoprotein with a predicted molecular mass of ~45 kDa, a member of the nectin family, which acts as a mediator of cell-cell adhesion and cell migration, and is a receptor for poliovirus and cytomegalovirus.

CD155 is a primate-restricted marker expressed by monocytes, macrophages, CD34+ thymocytes, endothelial and epithelial cells, and exists as both cell surface (alpha and delta) and secreted (beta and gamma) isoforms. CD155 promotes natural killer (NK) cell adhesion and NK effector functions, interacting with the NK receptors CD96 (Tactile) and CD226 (DNAM-1). CD155 forms a heterodimer with CD113 (nectin-3) which then binds to integrin alphaVbeta3.

Mouse anti Human CD155 antibody, clone SKII.4 has been shown to inhibit NK cell-mediated lysis ([Fuchs *et al.* 2004](#)).

Flow Cytometry

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

References

1. Fuchs, A. *et al.* (2005) Paradoxical inhibition of human natural interferon-producing cells by the activating receptor NKp44. [Blood. 106 \(6\): 2076-82.](#)
 2. Boles, K.S. *et al.* (2009) A novel molecular interaction for the adhesion of follicular CD4 T cells to follicular DC. [Eur J Immunol. 39 \(3\): 695-703.](#)
 3. Cella, M. *et al.* (2010) Loss of DNAM-1 contributes to CD8+ T-cell exhaustion in chronic HIV-1 infection. [Eur J Immunol. 40 \(4\): 949-54.](#)
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Storage

Prior to reconstitution store at +4°C. Following 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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