

Datasheet: MCA4644GA

Description:	MOUSE ANTI HUMAN CD155
Specificity:	CD155
Other names:	POLIOVIRUS RECEPTOR
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	SKII.4
Isotype:	IgG1
Quantity:	0.1 mg

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	■			1/25 - 1/200
Immunohistology - Frozen	■			
Immunohistology - Paraffin			■	
ELISA			■	
Immunofluorescence	■			

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 - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	Human SK-N-S1 neuroblastoma cells.

**External Database
Links**

UniProt:

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

Entrez Gene:

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

Synonyms

PVS

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.](#)

Storage

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

**Health And Safety
Information**

Material Safety Datasheet documentation #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)

[RPE](#)

Goat Anti Mouse IgG IgA IgM (STAR87...)

[Alk. Phos.](#), [HRP](#)

Rabbit Anti Mouse IgG (STAR9...)

[FITC](#)

Goat Anti Mouse IgG (STAR77...)

[HRP](#)

Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Human Anti Mouse IgG1 (HCA036...)	HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®549 , DyLight®649 , DyLight®680 , DyLight®800 , FITC , HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

North & South America	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
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