Datasheet: MCA6120PE

Description:	MOUSE ANTI HUMAN CD148:RPE
Specificity:	CD148
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	MEM-CD148/05
Isotype:	IgG2b
Quantity:	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.

	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) - liquid

Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
RPE 488nm laser	496	578
RPE 561nm laser	546	578

Preparation

Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

<0.1% Sodium Azide (NaN_3)
0.2% Bovine Serum Albumin

Immunogen

Human recombinant CD148 (amino acids 1-444)

External Database Links

UniProt:
Q12913 Related reagents

Entrez Gene:
5795 PTPRJ Related reagents

Synonyms

DEP1

Specificity	**Mouse anti Human CD148 antibody, clone MEM-CD148/05** recognizes CD148, a member of the receptor protein tyrosine phosphatase family. CD148 contains an ectodomain composed of multiple fibronectin type III-like repeats, a transmembrane domain and a single catalytic phosphatase domain. CD148 is broadly expressed including in platelets, T cells, B cells, macrophages as well as in some non-hematopoietic cells. CD148 functions as a key regulator of platelet reactivity via its regulation of Src family kinases (SFKs) (Senis et al. 2009). Deletion of CD148 in mice has been shown to significantly impact platelet reactivity and thrombosis via SFK activity regulation (Ellison et al. 2010). Clone MEM-CD148/05 has been used in immunofluorescence experiments to examine the co-localization of CD148 with CD45 at the immunological synapses formed between Tim-3^{hi}CD8^{+} T cells (Clayton et al. 2014).
Purity	>95% by SDS PAGE
Flow Cytometry	Use 10ul of the undiluted reagent to label 1x10^{6} cells in 100ul
Storage	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: 10041: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG2b NEGATIVE CONTROL:RPE (MCA691PE)

North & South America Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com

Worldwide Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com

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