

## Datasheet: MCA6137PE

<b>Description:</b>	MOUSE ANTI HUMAN IKAROS:RPE
<b>Specificity:</b>	IKAROS
<b>Other names:</b>	IFZF1
<b>Format:</b>	RPE
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	4E9
<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 (1)	▪			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.

**(1) Membrane permeabilisation is required for this application. Bio-Rad recommends the use of Leucoperm™ (Product Code [BUF09](#)) for this purpose.**

#### Target Species

Human

#### Species Cross Reactivity

Reacts with: Mouse

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

#### 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

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**Buffer Solution** Phosphate buffered saline

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**Preservative** <0.1% Sodium Azide (NaN<sub>3</sub>)  
**Stabilisers** 0.2% Bovine Serum Albumin

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**Immunogen** Recombinant human Ikaros (C-terminal)

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**External Database Links**

**UniProt:**

[Q13422](#)

[Related reagents](#)

**Entrez Gene:**

[10320](#)

IKZF1

[Related reagents](#)

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**Synonyms** IK1, IKAROS, LYF1, ZNFN1A1

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**Specificity**

**Mouse anti Human Ikaros, clone 4E9** recognizes Ikaros also known as Ikaros family zinc finger protein 1 (IFZF1) a DNA binding protein. It is expressed by hematopoietic cells, lymphoid cells and some subpopulations of myeloid cells. Ikaros is required for lymphocyte development and mediates B and T cell differentiation. It is thought that Ikaros regulates these processes by altering transcription of its target genes through chromatin remodeling of DNA promoter regions ([Gowda et al. 2017](#)).

To regulate transcription, Ikaros forms homo- or heterodimers with other Ikaros family members such as Helios, Aiolos, Eos or Pegasus. This dimerization forms a complex which is capable of binding DNA and initiating its transcriptional activity ([Merkenschlager 2010](#)).

This clone 4E9 has been used in immunocytochemistry experiments to examine Ikaros expression in cells incubated with cholesterol to examine how the transcription factor modulates cholesterol uptake ([Loeper et al. 2008](#)).

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**Purity** >95% by SDS PAGE

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**Flow Cytometry** Use 10ul of the suggested working dilution to label 1x10<sup>6</sup> cells in 100ul

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**Storage** Store at +4°C. DO NOT FREEZE.  
This product should be stored undiluted. This product is photosensitive and should be protected from light.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10041 available at:  
10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Negative Controls

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

### Recommended Useful Reagents

[LEUCOPERM \(BUF09B\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)  
'M353629:190509'

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