Datasheet: MCA6111PE

BATCH NUMBER 152499

Description:	MOUSE ANTI HUMAN CD115/CSF1R:RPE
Specificity:	CD115
Other names:	c-fms
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	FER216
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 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
Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution.

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

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers	0.09% Sodium Azide (NaN_3) 1% Bovine Serum Albumin 5% Sucrose
Immunogen	Recombinant protein of the extracellular domain of CSF1R (NP_005202.2, residues 1-514)
External Database Links	**UniProt:** P07333 Related reagents **Entrez Gene:** 1436 CSF1R Related reagents
Synonyms	FMS
Specificity	**Mouse anti Human CD115 antibody, clone FER216** recognizes the human CD115 cell surface antigen, also known as M-CSF receptor and c-fms. CD115 plays an important part in regulating the function, differentiation and proliferation of various cell types, with the major site of expression being macrophages. Human CD115 is a 972 amino acid 108 kDa single pass type I transmembrane glycoprotein however as the protein can be heavily modified by post translational modifications, the molecular weight of the receptor can vary significantly. The receptor has tyrosine kinase activity and acts as a membrane receptor for M-CSF and IL-34. Activation induces homodimerization, phosphorylation and ubiquitination of intracellular residues triggering kinase signaling pathways. CD115 chromosomal and expression abnormalities are involved in the development of Leukoencephalopathy, diffuse hereditary, with spheroids (HDLS), a adult-onset rapidly progressive neurodegenerative disorder demonstrating a variety of behavioural, cognitive and motor symptoms. CD115 mutations are also associated with Brain abnormalities, neurodegeneration, and dysosteosclerosis (BANDDOS) as well as other pathologies including neoplastic, inflammatory and neurological diseases (Chitu *et al*. 2016).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10^6 cells in 100ul
References	1. Carreras, J. *et al.* (2021) Integrative Statistics, Machine Learning and Artificial Intelligence Neural Network Analysis Correlated CSF1R with the Prognosis of Diffuse Large B-Cell Lymphoma Hemato. 2 (2): 182-206.
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.
Guarantee	12 months from date of despatch

Health And Safety Information	Material Safety Datasheet documentation #20487 available at: https://www.bio-rad-antibodies.com/SDS/MCA6111PE
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:RPE (MCA928PE)

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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