

Datasheet: MCA6111

BATCH NUMBER 153352

Description:	MOUSE ANTI HUMAN CD115/CSF1R
Specificity:	CD115
Other names:	c-fms
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	FER216
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	▪			1/50 - 1/200
Immunohistology - Frozen	▪			1/10 - 1/50
Immunohistology - Paraffin	▪			1/10 - 1/50

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 A
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml

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 10⁶ cells in 100ul

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

This product should be stored undiluted.

Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. 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 #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA6111>
10040

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight@488 , DyLight@550 , DyLight@650 , DyLight@680 , DyLight@800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP

Recommended Negative Controls

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

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	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
----------------------------------	---	------------------	---	---------------	---

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M361753:200311'

Printed on 31 Aug 2023