

## Datasheet: MCA6111

**BATCH NUMBER 153352**

<b>Description:</b>	MOUSE ANTI HUMAN CD115/CSF1R
<b>Specificity:</b>	CD115
<b>Other names:</b>	c-fms
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	FER216
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml

<b>Immunogen</b>	Recombinant protein of the extracellular domain of CSF1R (NP_005202.2, residues 1-514)
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P07333</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">1436</a>    CSF1R    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	FMS
<b>Specificity</b>	<p><b>Mouse anti Human CD115 antibody, clone FER216</b> 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.</p> <p>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.</p> <p>CD115 chromosomal and expression abnormalities are involved in the development of Leukoencephalopathy, diffuse hereditary, with spheroids (<a href="#">HDLS</a>), 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 (<a href="#">BANDDOS</a>) as well as other pathologies including neoplastic, inflammatory and neurological diseases (<a href="#">Chitu et al. 2016</a>).</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul
<b>Storage</b>	<p>Store at +4°C or at -20°C if preferred.</p> <p>This product should be stored undiluted.</p> <p>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.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA6111">https://www.bio-rad-antibodies.com/SDS/MCA6111</a> 10040
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight®488</a> , <a href="#">DyLight®550</a> , <a href="#">DyLight®650</a> , <a href="#">DyLight®680</a> , <a href="#">DyLight®800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>

### Recommended Negative Controls

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

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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)  
'M361753:200311'

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