

## Product datasheet

### Anti-CSF-1-R antibody [YEYE311] ab271294

Recombinant

★★★★★ [1 Abreviews](#) [2 References](#) [4 Images](#)

#### Overview

<b>Product name</b>	Anti-CSF-1-R antibody [YEYE311]
<b>Description</b>	Rat monoclonal [YEYE311] to CSF-1-R
<b>Host species</b>	Rat
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, IHC-P, WB <b>Unsuitable for:</b> Flow Cyt
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse
<b>Immunogen</b>	Tissue, cells or virus. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: RAW 264.7 and J774A.1 whole cell lysate. IHC-P: Mouse lymph node tissue. ICC/IF: RAW 264.7 cells.
<b>General notes</b>	<p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact <a href="mailto:orders@abcam.com">orders@abcam.com</a>.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 0.05% BSA, 40% Glycerol (glycerin, glycerine)
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	YEYE311

Isotype

IgG1

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab271294 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use a concentration of 24.16 µg/ml.
IHC-P	★★★★★ (1)	Use a concentration of 4.9 µg/ml. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		Use a concentration of 1.208 µg/ml. Predicted molecular weight: 108 kDa.

### Application notes

Is unsuitable for Flow Cyt.

## Target

### Function

Protein tyrosine-kinase transmembrane receptor for CSF1 and IL34.

### Tissue specificity

Expressed in bone marrow and in differentiated blood mononuclear cells.

### Sequence similarities

Belongs to the protein kinase superfamily. Tyr protein kinase family. CSF-1/PDGF receptor subfamily.

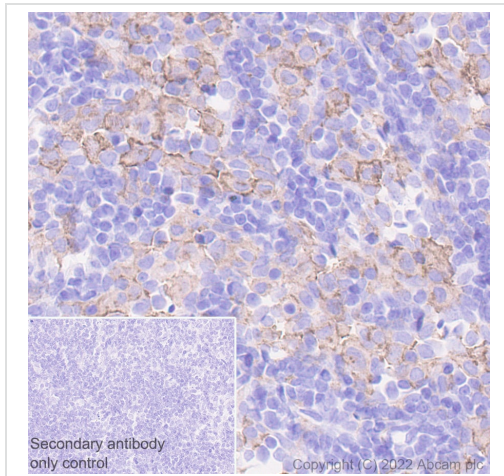
Contains 5 Ig-like C2-type (immunoglobulin-like) domains.

Contains 1 protein kinase domain.

### Cellular localization

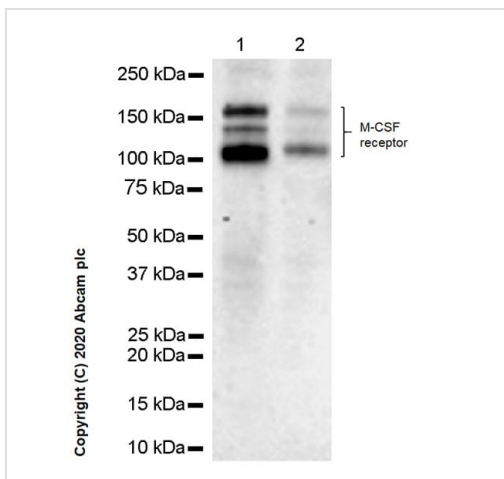
Membrane.

## Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CSF-1-R antibody [YEYE311] (ab271294)

Immunohistochemistry analysis of paraffin-embedded mouse lymph node tissue section labelling CSF-1-R with ab271294 at 1/200 dilution. The section was incubated with ab271294 at +4°C overnight. Goat Anti-Rat IgG H&L (HRP polymer) ([ab214882](#)) was used as the secondary antibody. Sections were counterstained with Hematoxylin. Positive staining on the macrophages in mouse lymph node. Heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0).



Western blot - Anti-CSF-1-R antibody [YEYE311] (ab271294)

**All lanes :** Anti-CSF-1-R antibody [YEYE311] (ab271294) at 1.208 µg/ml

**Lane 1 :** RAW 264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage), whole cell lysate

**Lane 2 :** J774A.1 (mouse reticulum cell sarcoma monocyte macrophage), whole cell lysate

Lysates/proteins at 20 µg per lane.

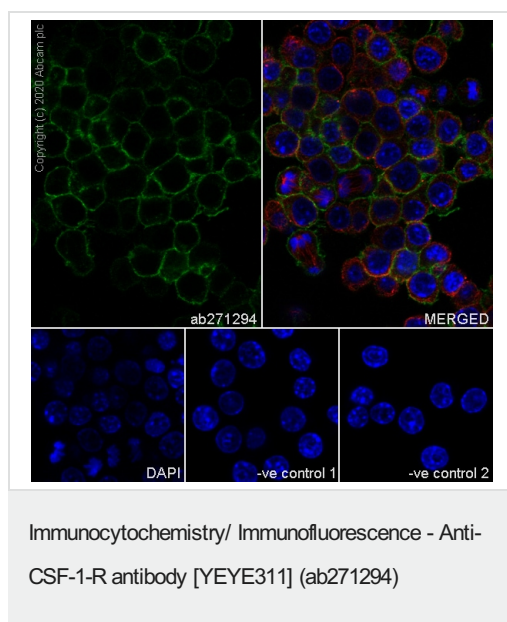
#### Secondary

**All lanes :** Goat Anti-Rat IgG H&L (HRP) ([ab205720](#)) at 1/10000 dilution

**Predicted band size:** 108 kDa

**Exposure time:** 3 minutes

The expression profile and molecular weight observed is consistent with what has been described in the literature (PMID:14673177). This blot was developed using a higher sensitivity ECL substrate. Blocking/Dilution buffer: 5% NFDM/TBST.



Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized RAW 264.7 cells labelling CSF1R with ab271294 at 1/50 dilution (24.16µg/ml), followed by **ab150157** Goat Anti-rat IgG H&L (Alexa Fluor® 488) antibody at 1/1000 dilution (Green). Confocal image showing strong membranous and weak cytoplasmic staining in RAW 264.7 cells. **ab179513** Anti-beta Tubulin rabbit monoclonal antibody was used to counterstain tubulin at 1/200 dilution, followed by **ab150080** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 594) at a 1/1000 dilution (Red). The nuclear counterstain was DAPI (Blue).

**Negative control 1:** ab271294 at a 1/50 dilution (24.16µg/ml) followed by **ab150080** at a 1/200 dilution.

**Negative control 2:** **ab179513** at a 1/200 dilution followed by **ab150157** at a 1/1000 dilution.

Why choose a recombinant antibody?

<p><b>Research with confidence</b> Consistent and reproducible results</p>	<p><b>Long-term and scalable supply</b> Recombinant technology</p>
<p><b>Success from the first experiment</b> Confirmed specificity</p>	<p><b>Ethical standards compliant</b> Animal-free production</p>

Anti-CSF-1-R antibody [YEYE311] (ab271294)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
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- Extensive multi-media technical resources to help you
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If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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