

## Product datasheet

# Anti-CSF-1-R antibody [YEYE311] - BSA and Azide free ab271304

Recombinant

4 Images

### Overview

<b>Product name</b>	Anti-CSF-1-R antibody [YEYE311] - BSA and Azide free
<b>Description</b>	Rat monoclonal [YEYE311] to CSF-1-R - BSA and Azide free
<b>Host species</b>	Rat
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, WB, ICC/IF <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>ab271304 is the carrier-free version of <a href="#">ab271294</a>.</p> <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>Our <b>carrier-free</b> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</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>

For more information [see here](#).

## Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Do Not Freeze.
<b>Storage buffer</b>	pH: 7.2 Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	YEYE311
<b>Isotype</b>	IgG1

## Applications

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**The Abpromise guarantee** Our [Abpromise guarantee](#) covers the use of ab271304 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
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		Use at an assay dependent concentration. Predicted molecular weight: 108 kDa.
ICC/IF		Use at an assay dependent concentration.

**Application notes** Is unsuitable for Flow Cyt.

## Target

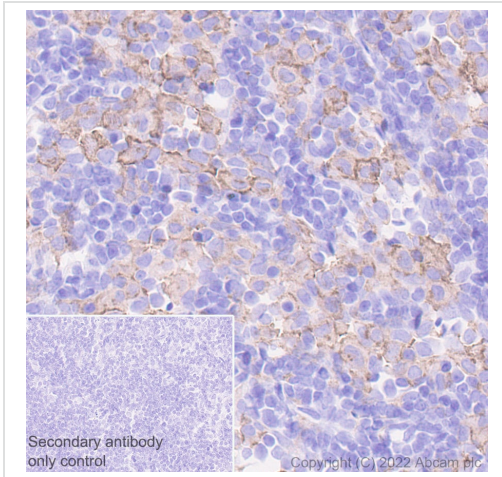
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<b>Function</b>	Protein tyrosine-kinase transmembrane receptor for CSF1 and IL34.
<b>Tissue specificity</b>	Expressed in bone marrow and in differentiated blood mononuclear cells.
<b>Sequence similarities</b>	Belongs to the protein kinase superfamily. Tyr protein kinase family. CSF-1/PDGF receptor subfamily. Contains 5 Ig-like C2-type (immunoglobulin-like) domains. Contains 1 protein kinase domain.
<b>Cellular localization</b>	Membrane.

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## Images

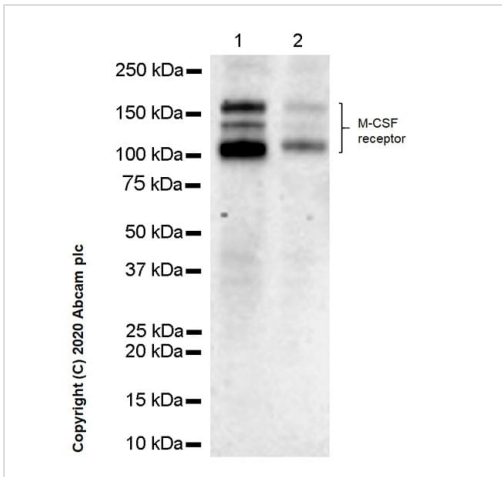
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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CSF-1-R antibody [YEYE311] - BSA and Azide free (ab271304)

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).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab271294**).



Western blot - Anti-CSF-1-R antibody [YEYE311] - BSA and Azide free (ab271304)

**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

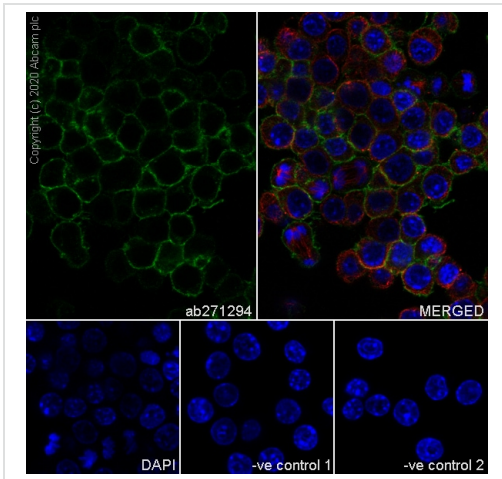
**Exposure time:** 3 minutes

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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab271294**).



Immunocytochemistry/ Immunofluorescence - Anti-CSF-1-R antibody [YEYE311] - BSA and Azide free (ab271304)

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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab271294**).

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] - BSA and Azide free (ab271304)

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

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