


Product datasheet

Anti-M-CSF antibody [EP1179Y] ab52864

Recombinant RabMAb

21 References 8 Images

Overview

<b>Product name</b>	Anti-M-CSF antibody [EP1179Y]
<b>Description</b>	Rabbit monoclonal [EP1179Y] to M-CSF
<b>Host species</b>	Rabbit
<b>Specificity</b>	This antibody fails to detect endogenous natural samples in WB.
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt (Intra), WB, IP, IHC-P, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Human, Recombinant fragment <b>Predicted to work with:</b> Sheep, Cow, Chimpanzee 
<b>Immunogen</b>	Synthetic peptide within Human M-CSF aa 50-150. The exact sequence is proprietary. Database link: <a href="#">P09603</a>
<b>Positive control</b>	WB: Recombinant MCSF IHC-P: Human tonsil tissue.
<b>General notes</b>	This product is a recombinant monoclonal antibody, which offers several advantages including: <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 <a href="#">see here</a> .  Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a> .  <b>We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.</b>

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: 7.20

	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EP1179Y
<b>Isotype</b>	IgG

## Applications

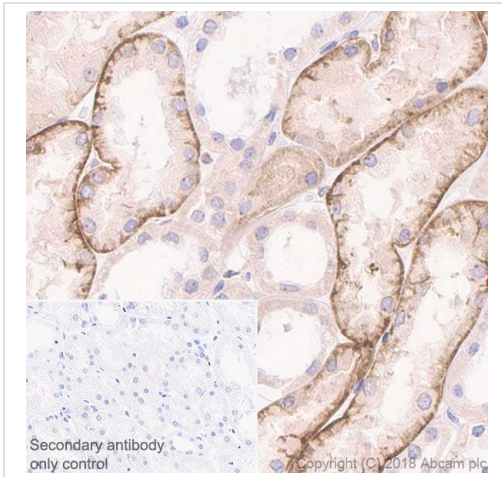
**The Abpromise guarantee** Our [Abpromise guarantee](#) covers the use of ab52864 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/80.
WB		1/2000. Predicted molecular weight: 60 kDa. This antibody fails to detect endogenous natural samples in WB.
IP		1/40. <b>For unpurified use at 1/50 dilution.</b>
IHC-P		1/500. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See <a href="#">IHC antigen retrieval protocols</a> . <b>For unpurified use at 1/50 - 1/100 dilution.</b>
ICC/IF		1/100. <b>For unpurified use at 1/250 - 1/500 dilution.</b>

## Target

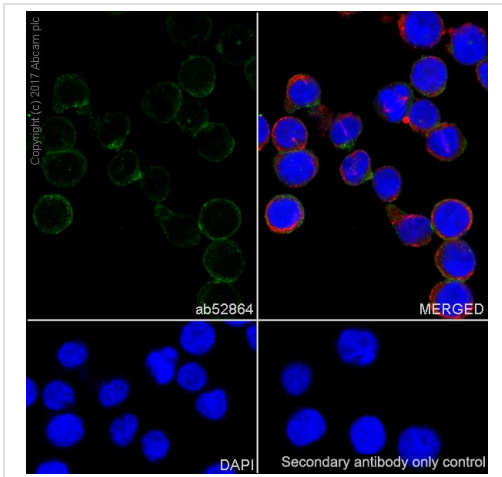
<b>Function</b>	Granulocyte/macrophage colony-stimulating factors are cytokines that act in hematopoiesis by controlling the production, differentiation, and function of 2 related white cell populations of the blood, the granulocytes and the monocytes-macrophages. CSF-1 induces cells of the monocyte/macrophage lineage. It plays a role in immunological defenses, bone metabolism, lipoproteins clearance, fertility and pregnancy.
<b>Post-translational modifications</b>	Glycosylation and proteolytic cleavage yield different soluble forms. A high molecular weight soluble form is a proteoglycan containing chondroitin sulfate. Isoform 1 is N- and O-glycosylated. Isoform 3 is N-glycosylated.
<b>Cellular localization</b>	Cell membrane and Secreted > extracellular space.

## Images



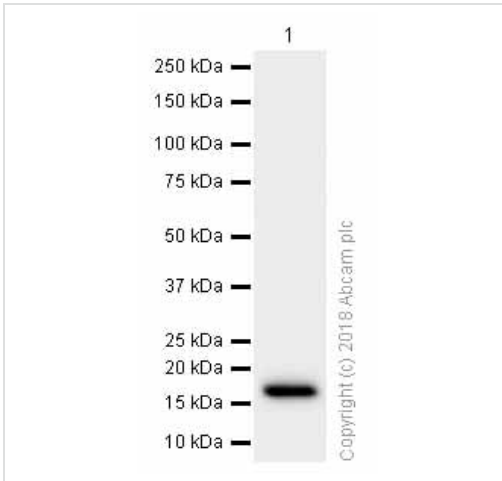
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human kidney tissue sections labeling M-CSF with Purified ab52864 at 1:500 dilution (1.52 µg/ml). Heat mediated antigen retrieval was performed using [ab93684](#) (Tris/EDTA buffer, pH 9.0)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-M-CSF antibody [EP1179Y] (ab52864)



Immunocytochemistry/ Immunofluorescence analysis of THP-1 (Human monocytic leukemia monocyte) cells labeling M-CSF with Purified ab52864 at 1:100 (7.6 µg/ml). Cells were fixed in 100% Methanol and permeabilized with None. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1:200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, [ab150077](#)) was used as the secondary antibody at 1:1000 (2 µg/ml) dilution. DAPI nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.

Immunocytochemistry/ Immunofluorescence - Anti-M-CSF antibody [EP1179Y] (ab52864)



Western blot - Anti-M-CSF antibody [EP1179Y] (ab52864)

Anti-M-CSF antibody [EP1179Y] (ab52864) at 1/2000 dilution (Purified) + Human M-CSF (aa 33-190) recombinant protein at 0.015 µg

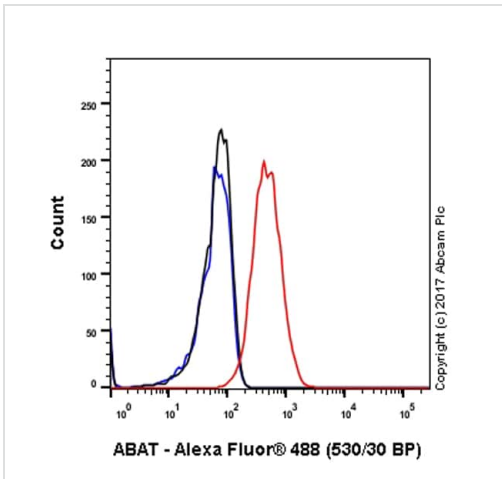
**Secondary**

Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

**Predicted band size:** 60 kDa

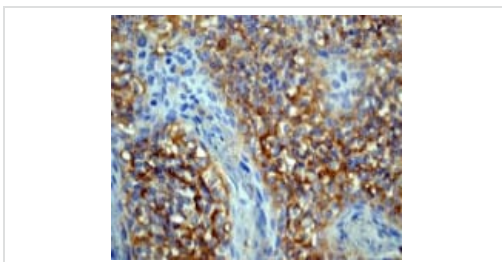
**Observed band size:** 19 kDa

Blocking buffer: 5% NFDM/TBST.



Flow Cytometry (Intracellular) - Anti-M-CSF antibody [EP1179Y] (ab52864)

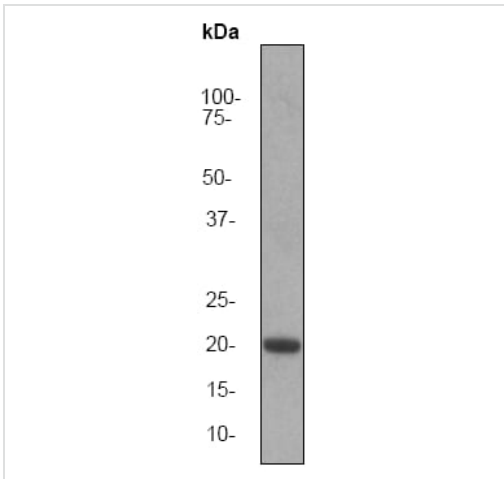
Intracellular Flow Cytometry analysis of THP-1 (Human monocytic leukemia monocyte) cells labeling M-CSF with purified ab52864 at 1/80 dilution (10µg/ml) (red). Cells were fixed with 4% Paraformaldehyde. A Goat anti rabbit IgG (Alexa Fluor®488) secondary antibody was used at 1/2000 dilution. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-M-CSF antibody [EP1179Y] (ab52864)

Formalin-fixed, paraffin-embedded human tonsil tissue stained for M-CSF with unpurified ab52864 (1/50 dilution) in immunohistochemical analysis.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Western blot - Anti-M-CSF antibody [EP1179Y] (ab52864)

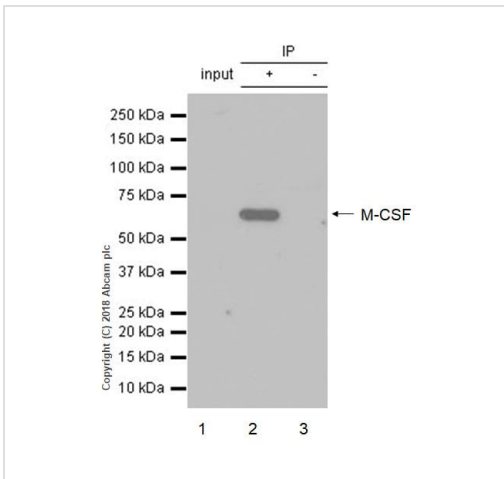
Anti-M-CSF antibody [EP1179Y] (ab52864) at 1/50000 dilution (unpurified) + recombinant MCSF at 0.005 µg

**Secondary**

Goat anti-rabbit HRP at 1/2000 dilution

**Predicted band size:** 60 kDa

**Observed band size:** 20 kDa



Immunoprecipitation - Anti-M-CSF antibody [EP1179Y] (ab52864)

ab52864 (purified) at 1:40 dilution (2µg) immunoprecipitating M-CSF in THP-1 whole cell lysate.

**Lane 1 (input):** THP-1 (Human monocytic leukemia monocyte) whole cell lysate 10µg





**Lane 2 (+):** ab52864 & THP-1 whole cell lysate

**Lane 3 (-):** Rabbit monoclonal IgG (ab172730) instead of ab52864 in THP-1 whole cell lysate

For western blotting, VeriBlot for IP Detection Reagent (HRP) (ab131366) was used for detection at 1:1000 dilution.

Blocking and diluting buffer: 5% NFDM/TBST.

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-M-CSF antibody [EP1179Y] (ab52864)

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

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