


Product datasheet

Anti-M-CSF antibody [EP1179Y] ab52864

Recombinant **RabMAb**

[23 References](#) [8 Images](#)

Overview

Product name	Anti-M-CSF antibody [EP1179Y]
Description	Rabbit monoclonal [EP1179Y] to M-CSF
Host species	Rabbit
Specificity	This antibody fails to detect endogenous natural samples in WB.
Tested applications	Suitable for: Flow Cyt (Intra), WB, IP, IHC-P, ICC/IF
Species reactivity	Reacts with: Human, Recombinant fragment Predicted to work with: Sheep, Cow, Chimpanzee 
Immunogen	Synthetic peptide within Human M-CSF aa 50-150. The exact sequence is proprietary. Database link: P09603
Positive control	WB: Recombinant MCSF IHC-P: Human tonsil tissue.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal

Clone number	EP1179Y
Isotype	IgG

Applications

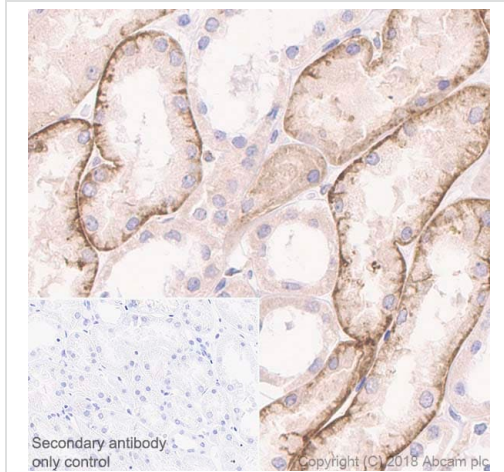
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab52864 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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. For unpurified use at 1/50 dilution.
IHC-P		1/500. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See <u>IHC antigen retrieval protocols</u> . For unpurified use at 1/50 - 1/100 dilution.
ICC/IF		1/100. For unpurified use at 1/250 - 1/500 dilution.

Target

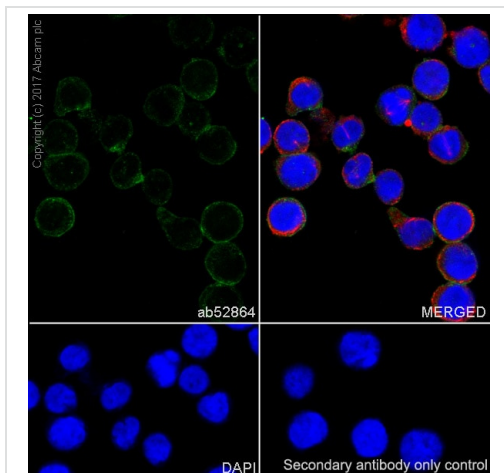
Function	Granulocyte/macrophage colony-stimulating factors are cytokines that act in hematopoiesis by controlling the production, differentiation, and function of 2 related white cell populations of the blood, the granulocytes and the monocytes-macrophages. CSF-1 induces cells of the monocyte/macrophage lineage. It plays a role in immunological defenses, bone metabolism, lipoproteins clearance, fertility and pregnancy.
Post-translational modifications	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.
Cellular localization	Cell membrane and Secreted > extracellular space.

Images



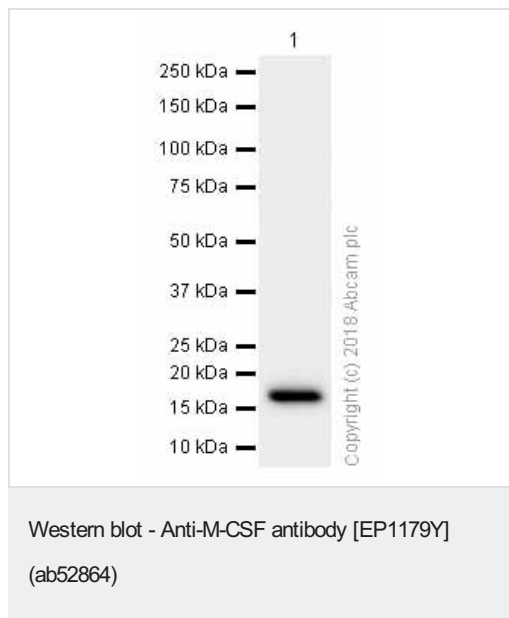
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-M-CSF antibody [EP1179Y] (ab52864)

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)



Immunocytochemistry/ Immunofluorescence - 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.



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

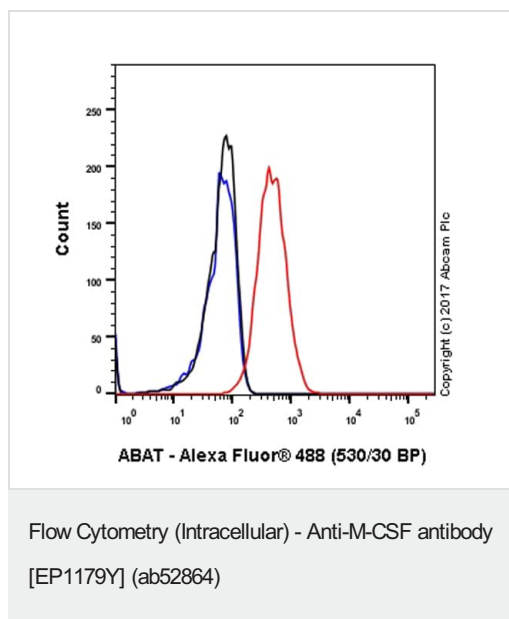
Secondary

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

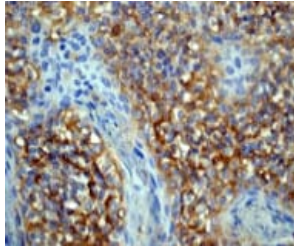
Predicted band size: 60 kDa

Observed band size: 19 kDa

Blocking buffer: 5% NFDM/TBST.



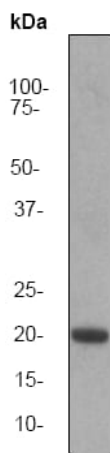
Intracellular Flow Cytometry analysis of THP-1 (Human monocytic leukemia monocyte) cells labeling M-CSF with purified ab52864 at 1/80 dilution (10 µg/ml) (red). Cells were fixed with 4% Paraformaldehyde. A Goat anti rabbit IgG (Alexa Fluor®488) secondary antibody was used at 1/2000 dilution. Isotype 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)

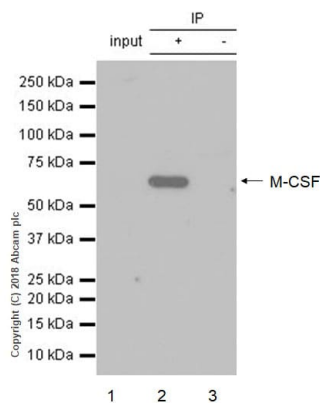
Anti-M-CSF antibody [EP1179Y] (ab52864) at 1/50000 dilution (unpurified) + recombinant MCSF at 0.005 µg

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?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

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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