abcam

Product datasheet

Anti-M-CSF antibody [EPR20948] ab233387

Recombinant RabMAb

1 Abreviews 4 References 9 Images

Overview

Product name	Anti-M-CSF antibody [EPR20948]
Description	Rabbit monoclonal [EPR20948] to M-CSF
Host species	Rabbit
Tested applications	**Suitable for:** Flow Cyt (Intra), WB, IHC-P, ICC/IF
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: U937, P388D1, J774A.1, Jurkat, MDA-MB-231, K562, C6, PC-12 and NIH/3T3 whole cell lysates; Human tonsil, brain and kidney lysates. IHC-P: Human colon and bladder cancer tissues; Mouse and rat colon tissues. ICC/IF: Jurkat cells. Flow Cyt (intra): Jurkat cells.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - 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: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR20948

Isotype	IgG

Applications

The Abpromise guarantee Our Abpromise guarantee covers the use of ab233387 in the following tested applications.

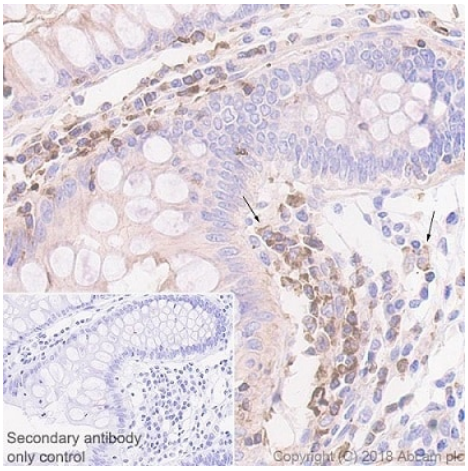
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/500.
WB		1/1000. Detects a band of approximately 43 kDa (predicted molecular weight: 60 kDa).
IHC-P		1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		1/100.

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.

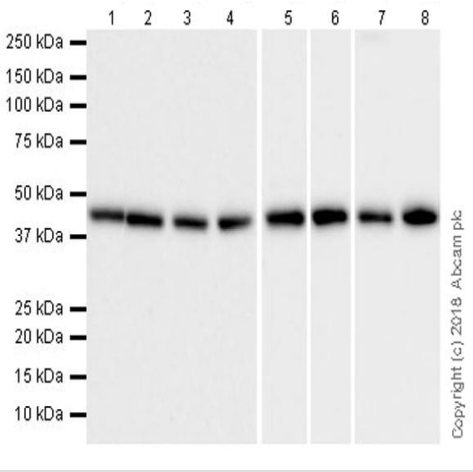
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-M-CSF antibody [EPR20948] (ab233387)

Immunohistochemical analysis of paraffin-embedded human colon tissue labeling M-CSF with ab233387 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Counter stained with hematoxylin. Heat-mediated antigen retrieval using ab93684 (Tris/EDTA buffer, pH 9.0). Positive staining on stromal cells (arrows) and weak staining on epithelium of human colon (PMID: 15519852; PMID: 11745698).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.



Western blot - Anti-M-CSF antibody [EPR20948] (ab233387)

All lanes : Anti-M-CSF antibody [EPR20948] (ab233387) at 1/1000 dilution

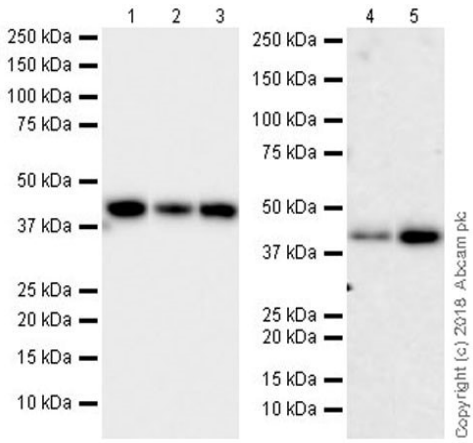
Lane 1 : U937 (human histiocytic lymphoma cell line) whole cell lysate
Lane 2 : P388D1 (mouse lymphoma monocyte; macrophage cell line) whole cell lysate
Lanes 3 & 7 : J774A.1 (mouse reticulum cell sarcoma monocyte macrophage cell line) whole cell lysate
Lane 4 : Human tonsil lysate
Lane 5 : Jurkat (human T cell leukemia cell line from peripheral blood) whole cell lysate
Lane 6 : MDA-MB-231 (human breast adenocarcinoma cell line) whole cell lysate
Lane 8 : K562 (human chronic myelogenous leukemia cell line from bone marrow) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/50000 dilution

Developed using the ECL technique.

Predicted band size: 60 kDa
Observed band size: 43 kDa



Western blot - Anti-M-CSF antibody [EPR20948] (ab233387)

Exposure time : Lanes 1-4: 3 minutes; Lanes 5: 6 seconds; Lanes 6-8: 26 seconds.

Blocking/Dilution buffer: 5% NFDM/TBST.

The molecular mass observed is consistent with what has been described in the literature (PMID: 21502940; PMID: 3264877).

All lanes : Anti-M-CSF antibody [EPR20948] (ab233387) at 1/1000 dilution

Lane 1 : C6 (rat glial tumor cell line) whole cell lysate
Lane 2 : PC-12 (rat adrenal gland pheochromocytoma cell line) whole cell lysate
Lane 3 : NIH/3T3 (mouse embryo fibroblast cell line) whole cell lysate
Lane 4 : Human brain lysate
Lane 5 : Human kidney lysate

Lysates/proteins at 10 µg per lane.

Secondary
Lanes 1-3 : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/50000 dilution
Lanes 4-5 : VeriBlot for IP Detection Reagent (HRP) (ab131366) at 1/2000 dilution

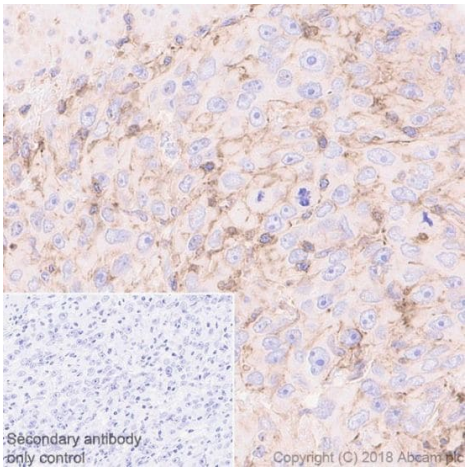
Developed using the ECL technique.

Predicted band size: 60 kDa
Observed band size: 43 kDa

Exposure time : Lanes 1-3: 3 minutes; Lanes 4-5:10 seconds.

Blocking/Dilution buffer: 5% NFDM/TBST.

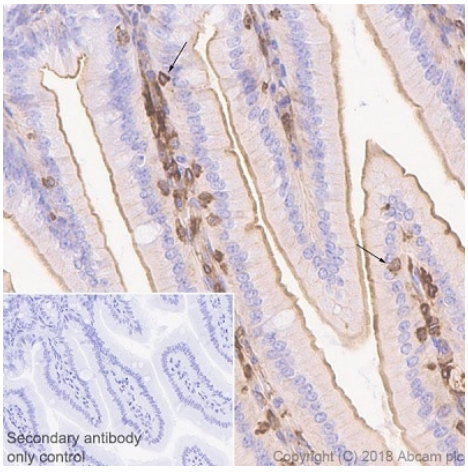
The molecular mass observed is consistent with what has been described in the literature (PMID: 21502940; PMID: 3264877).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-M-CSF antibody [EPR20948] (ab233387)

Immunohistochemical analysis of paraffin-embedded human bladder cancer tissue labeling M-CSF with ab233387 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Counter stained with hematoxylin. Heat-mediated antigen retrieval using ab93684 (Tris/EDTA buffer, pH 9.0). Membranous and weak cytoplasmic staining on human bladder cancer (PMID: 25082815; PMID: 25667468) is observed.

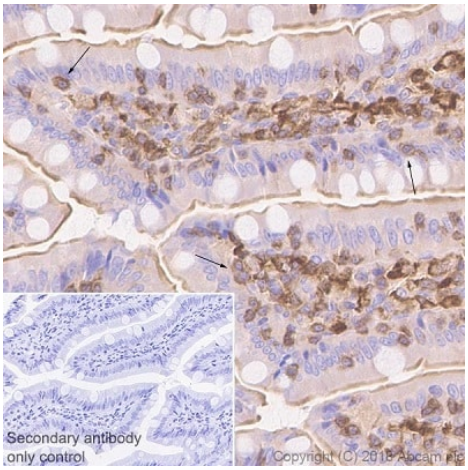
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-M-CSF antibody [EPR20948] (ab233387)

Immunohistochemical analysis of paraffin-embedded mouse colon tissue labeling M-CSF with ab233387 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Counter stained with hematoxylin. Heat-mediated antigen retrieval using ab93684 (Tris/EDTA buffer, pH 9.0). Positive staining on stromal cells (arrows) and weak staining on epithelium of mouse colon (PMID: 15519852; PMID: 11745698).

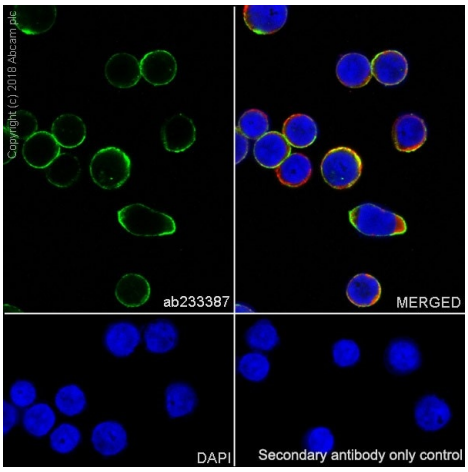
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-M-CSF antibody [EPR20948] (ab233387)

Immunohistochemical analysis of paraffin-embedded rat colon tissue labeling M-CSF with ab233387 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Counter stained with hematoxylin. Heat-mediated antigen retrieval using ab93684 (Tris/EDTA buffer, pH 9.0). Positive staining on stromal cells (arrows) and weak staining on epithelium of rat colon (PMID: 15519852; PMID: 11745698)

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

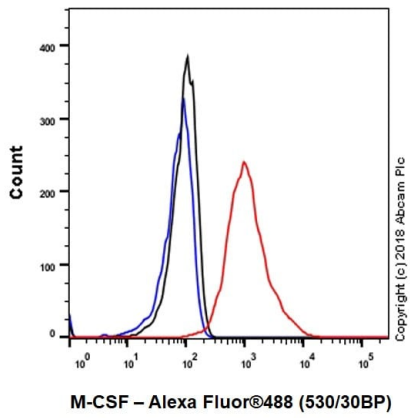


Immunocytochemistry/ Immunofluorescence - Anti-M-CSF antibody [EPR20948] (ab233387)

Immunofluorescent analysis of 100% methanol-fixed Jurkat (human T cell leukemia cell line from peripheral blood) cells labeling M-CSF with ab233387 at 1/100 dilution followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution (green). Confocal image showing membranous staining in Jurkat cell line.

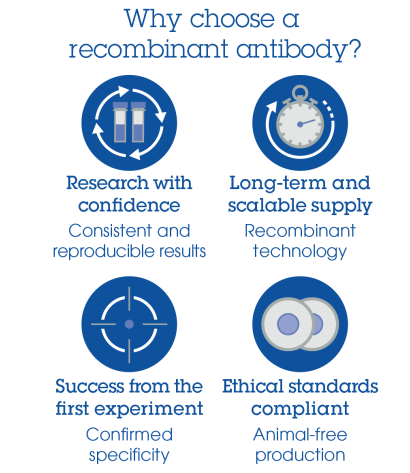
The nuclear counter stain is DAPI (blue). Tubulin is detected with Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) (ab195889) (red) at 1/200 dilution.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution.



Flow Cytometry (Intracellular) - Anti-M-CSF antibody [EPR20948] (ab233387)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol-permeabilized Jurkat (human T cell leukemia cell line from peripheral blood) cells labeling M-CSF with ab233387 at 1/500 dilution (red) compared with a Rabbit IgG, monoclonal [EPR25A] - Isotype Control (ab172730) (black) and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (blue). Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) at 1/2000 dilution was used as the secondary antibody.



Anti-M-CSF antibody [EPR20948] (ab233387)

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

Our Abpromise to you: Quality guaranteed and expert technical support

- 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
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you

- We investigate all quality concerns to ensure our products perform to the highest standards

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.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors