

Product datasheet

Anti-M-CSF antibody ab9693

★★★★★ [1 Abreviews](#) [20 References](#) [3 Images](#)

Overview

Product name	Anti-M-CSF antibody
Description	Rabbit polyclonal to M-CSF
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ELISA, Neutralising, Sandwich ELISA
Species reactivity	Reacts with: Human, Recombinant fragment
Immunogen	Recombinant full length protein corresponding to Human M-CSF . Highly pure (>98%) recombinant hM-CSF (human M-CSF) Database link: P09603
Positive control	WB: Recombinant human M-CSF protein (ab9694).
General notes	<p>This product is no longer batch tested in IHC, for an IHC validated antibody please see ab52864</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Lyophilized:Reconstitute with 200µl of sterile water.
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
Storage buffer	No preservative, sterile filtered
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	unknown
Light chain type	unknown

Applications

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab9693 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
WB	★★★★★ (1)	Use at an assay dependent concentration. To detect hM-CSF by Western Blot analysis this antibody can be used at a concentration of 0.1 - 0.2 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant hM-CSF is 1.5 - 3.0 ng/lane, under either reducing or non-reducing conditions.
IHC-P		Use at an assay dependent concentration.
ELISA		Use at an assay dependent concentration. To detect hM-CSF by direct ELISA (using 100µl/well antibody solution) a concentration of at least 0.5µg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with compatible secondary reagents, allows the detection of 0.2 - 0.4 ng/well of recombinant hM-CSF.
Neutralising		Use at an assay dependent concentration. To yield one-half maximal inhibition [ND50] of the biological activity of hM-CSF (7.0 ng/ml), a concentration of 0.02 - 0.03 µg/ml of this antibody is required.
Sandwich ELISA		Use a concentration of 0.1 µg/ml. To detect hM-CSF by sandwich ELISA (using 100 µl/well antibody solution) a concentration of 0.5 - 2.0 µg/ml of this antibody is required.

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



Western blot - Anti-M-CSF antibody (ab9693)

Anti-M-CSF antibody (ab9693) at 0.2 µg/ml + Recombinant human M-CSF protein (**ab9694**) at 0.01 µg

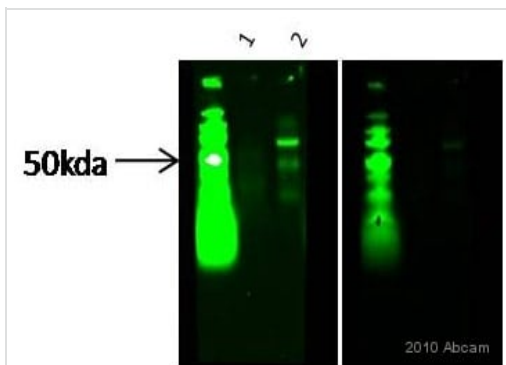
Secondary

Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (**ab97080**) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Exposure time: 1 minute



Western blot - Anti-M-CSF antibody (ab9693)

This image is courtesy of an Abreview submitted by Valentina Marcelli

All lanes : Anti-M-CSF antibody (ab9693) at 1/500 dilution (for 12 hours at 4°C)

Lane 1 : Human Kidney whole cell lysate

Lane 2 : Human Kidney whole cell lysate transfected with LFABP

Lysates/proteins at 15 µg per lane.

Secondary

All lanes : An IRDye®800CW-conjugated Goat anti-rabbit IgG polyclonal at 1/15000 dilution

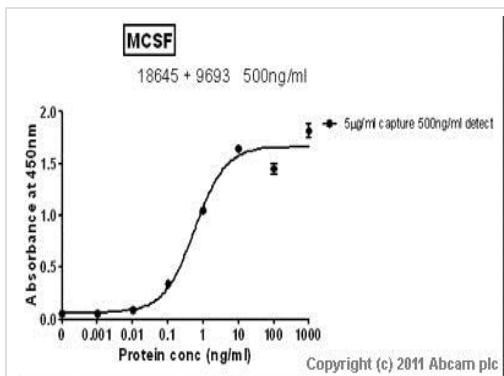
Performed under non-reducing conditions.

Observed band size: 70 kDa

Blocking Step: 5% BSA for 1 hour at 25°C

Detection method: Odyssey for 50 seconds.

Right-hand Image: Weaker exposure to identify bands.



Standard curve for MCSF (Analyte: **ab62015**); dilution range 1pg/ml to 1µg/ml using Capture Antibody Mouse monoclonal [21] to MCSF (**ab18645**) at 1µg/ml and Detector Antibody Rabbit polyclonal to MCSF (ab9693) at 0.1µg/ml.

Sandwich ELISA - Anti-M-CSF antibody (ab9693)

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