

# MCSF Receptor (CSF1R) Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP7604b

## Product Information

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<b>Application</b>	IHC-P, WB, FC, E
<b>Primary Accession</b>	<a href="#">P07333</a>
<b>Reactivity</b>	Human, Rat, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB01520
<b>Antigen Region</b>	940-971

## Additional Information

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<b>Other Names</b>	Macrophage colony-stimulating factor 1 receptor, CSF-1 receptor, CSF-1-R, CSF-1R, M-CSF-R, Proto-oncogene c-Fms, CD115, CSF1R, FMS
<b>Target/Specificity</b>	This MCSF Receptor (CSF1R) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 940-971 amino acids from the C-terminal region of human MCSF Receptor (CSF1R).
<b>Dilution</b>	IHC-P~~1:100~500 WB~~1:1000 FC~~1:25 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	MCSF Receptor (CSF1R) Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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### Background

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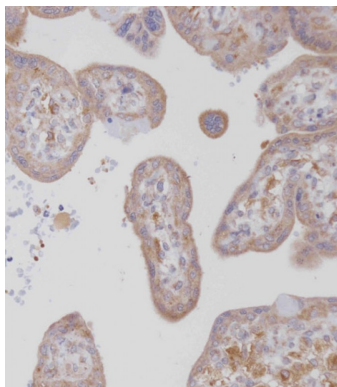
CSF1R is the receptor for colony stimulating factor 1, a cytokine which controls the production, differentiation, and function of macrophages. This receptor mediates most if not all of the biological effects of this cytokine. Ligand binding activates the receptor kinase through a process of oligomerization and transphosphorylation. This protein is a tyrosine kinase transmembrane receptor and member of the CSF1/PDGF receptor family of tyrosine-protein kinases. Mutations in the gene encoding CSF1R have been

associated with a predisposition to myeloid malignancy.

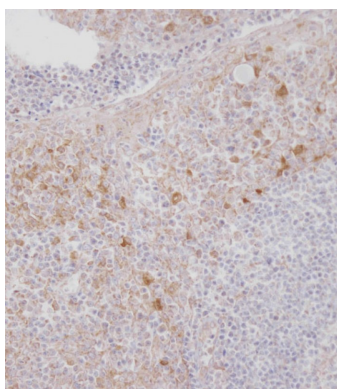
## References

- Follows, G.A., et al., EMBO J. 22(11):2798-2809 (2003).  
Riccioni, R., et al., Leukemia 17(1):98-113 (2003).  
Zhu, K., et al., Biochem. Biophys. Res. Commun. 297(5):1211-1217 (2002).  
Ide, H., et al., Proc. Natl. Acad. Sci. U.S.A. 99(22):14404-14409 (2002).  
Flick, M.B., et al., J. Cell. Biochem. 85(1):10-23 (2002).

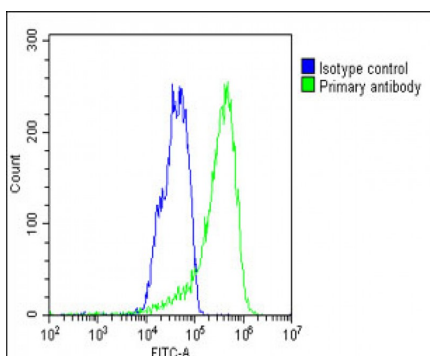
## Images



Immunohistochemical analysis of AP7604B on paraffin-embedded Human placenta tissue. Tissue was fixed with formaldehyde at room temperature. Heat induced epitope retrieval was performed by EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:100) for 1 hour at room temperature. Undiluted CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.

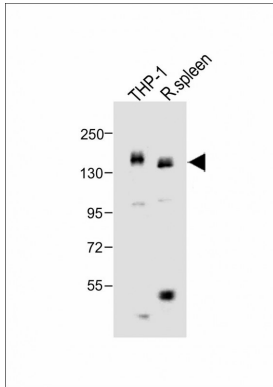
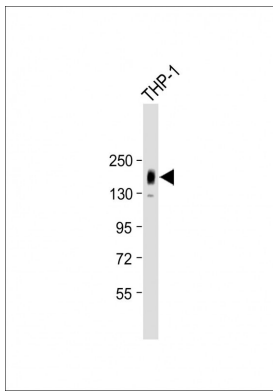


Immunohistochemical analysis of AP7604B on paraffin-embedded Human tonsil tissue. Tissue was fixed with formaldehyde at room temperature. Heat induced epitope retrieval was performed by EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:100) for 1 hour at room temperature. Undiluted CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.

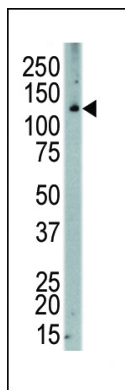


Overlay histogram showing HepG2 cells stained with AP7604b(green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP7604b, 1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(1583138) at 1/200 dilution for 40 min at 37°C. Isotype control antibody (blue line) was rabbit IgG1 (1µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >10, 000 events was performed.

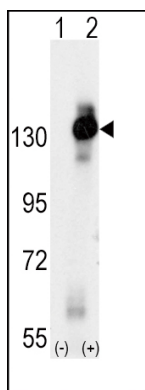
Anti-MCSF Receptor (CSF1R) Antibody (C-term) at 1:2000 dilution + THP-1 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 108 kDa Blocking/Dilution buffer: 5% NFDm/TBST.



All lanes : Anti-MCSF Receptor (CSF1R) Antibody (C-term) at 1:1000 dilution Lane 1: THP-1 whole cell lysate Lane 2: rat spleen lysate Lysates/proteins at 20  $\mu$ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 108 kDa Blocking/Dilution buffer: 5% NFDm/TBST.

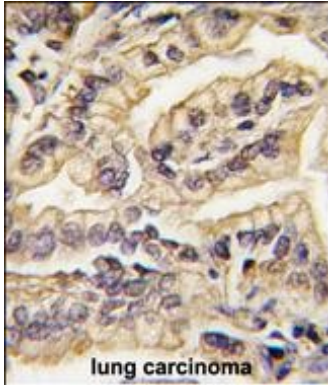
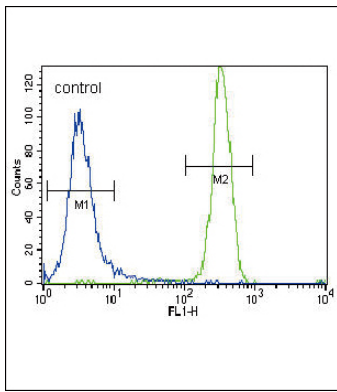


Western blot analysis of anti-CSF1R Pab (Cat. #AP7604b) in human placenta. CSF1R (arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.



Western blot analysis of CSF1R (arrow) using rabbit polyclonal CSF1R Antibody (C-term)(Cat.#AP7604b). 293 cell lysates (2  $\mu$ g/lane) either nontransfected (Lane 1) or transiently transfected with the CSF1R gene (Lane 2) (Origene Technologies).

MCSF Receptor (CSF1R) Antibody (C-term) (Cat. #AP7604b) flow cytometric analysis of NCI-H460 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Formalin-fixed and paraffin-embedded human lung carcinoma tissue reacted with CSF1R Antibody (C-term) (Cat.#AP7604b), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

## Citations

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- [Colony-stimulating factor-1 and colony-stimulating factor-1 receptor co-expression is associated with disease progression in gastric cancer.](#)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.