

**Anti-CSF3R/G-CSF R Antibody**  
**Catalog # ABO11210****Specification**

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**Anti-CSF3R/G-CSF R Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q99062</a>
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Granulocyte colony-stimulating factor receptor(CSF3R) detection. Tested with WB in Human.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-CSF3R/G-CSF R Antibody - Additional Information**

**Gene ID** 1441

**Other Names**

Granulocyte colony-stimulating factor receptor, G-CSF receptor, G-CSF-R, CD114, CSF3R, GCSFR

**Calculated MW**

92156 MW KDa

**Application Details**

Western blot, 0.1-0.5 µg/ml, Human<br>

**Subcellular Localization**

Isoform 2: Secreted .

**Tissue Specificity**

One or several isoforms have been found in myelogenous leukemia cell line KG-1, leukemia U-937 cell line, in bone marrow cells, placenta, and peripheral blood granulocytes. Isoform GCSFR-2 is found only in leukemia U-937 cells. Isoform GCSFR-3 is highly expressed in placenta.

**Protein Name**

Granulocyte colony-stimulating factor receptor

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Thimerosal, 0.05mg NaN<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence in the middle region of human GCSF Receptor(254-271aa EPWQPGLHINQKCELRHK).

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

**Sequence Similarities**

Belongs to the type I cytokine receptor family. Type 2 subfamily.

**Anti-CSF3R/G-CSF R Antibody - Protein Information**

**Name** CSF3R

**Synonyms** GCSFR

**Function**

Receptor for granulocyte colony-stimulating factor (CSF3), essential for granulocytic maturation. Plays a crucial role in the proliferation, differentiation and survival of cells along the neutrophilic lineage. In addition it may function in some adhesion or recognition events at the cell surface.

**Cellular Location**

[Isoform 2]: Secreted.

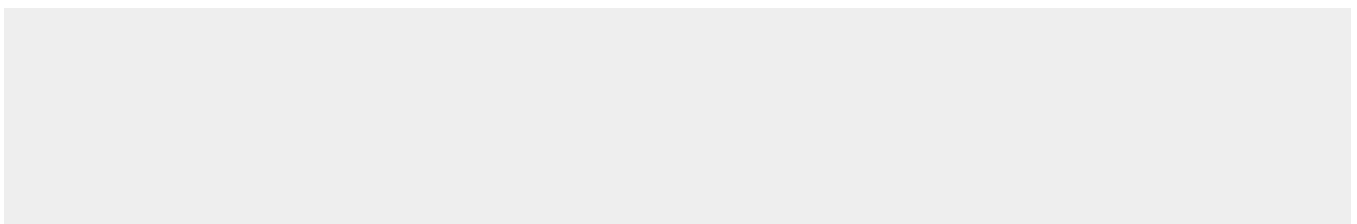
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**Anti-CSF3R/G-CSF R Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-CSF3R/G-CSF R Antibody - Images**



Anti-GCSF Receptor antibody, ABO11210, Western blottingWB: Human Placenta Tissue Lysate

#### **Anti-CSF3R/G-CSF R Antibody - Background**

CSF3R(Colony-Stimulating Factor 3 Receptor, Granulocyte) also known as GCSFR or CD114((Cluster of Differentiation 114) is a protein that in humans is encoded by the CSF3R gene. G-CSF-R is a cell-surface receptor for the granulocyte colony-stimulating factor(G-CSF). The G-CSF receptors belongs to a family of cytokine receptors known as the hematopoietin receptor family. The CSF3R gene consists of 17 exons. By in situ hybridization using human CSF3R cDNA as a probe, Inazawa et al.(1991) localized the gene to 1p35-p34.3. The G-CSF-R is a transmembrane receptor that consists of an extracellular ligand-binding portion, a transmembrane domain, and the cytoplasmic portion that is responsible for signal transduction. GCSF-R ligand-binding is associated with dimerization of the receptor and signal transduction through proteins including Jak, Lyn, STAT, and Erk1/2. Dong et al.(2001) reported that the C terminus of CSF3R is required for SHP1 downregulation of CSF3-induced STAT activation. The authors proposed that this mechanism inhibits cell proliferation and survival in response to CSF3.