

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

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

Application	WB
Primary Accession	Q99062
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

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 Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

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 r°Constitution, 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.

Tissue Location

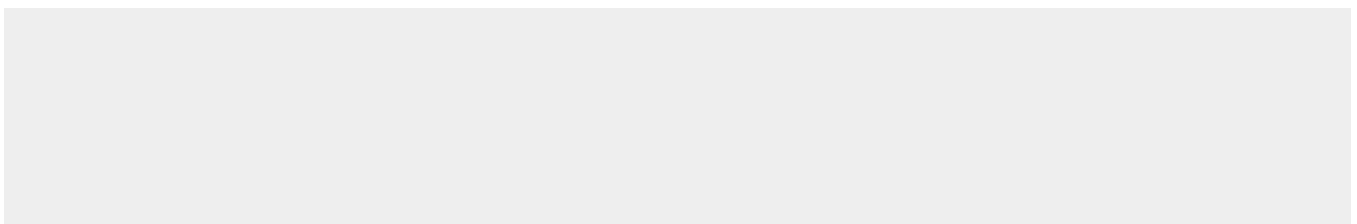
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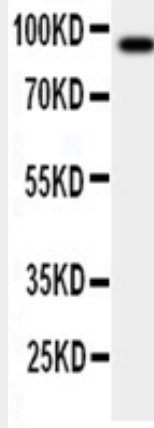
Anti-CSF3R/G-CSF R Antibody - Protocols

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.