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Anti-CSF3R/G-CSF R Antibody

Catalog # ABO11210

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.

Additional Information

Gene ID	1441
Other Names	Granulocyte colony-stimulating factor receptor, G-CSF receptor, G-CSF-R, CD114, CSF3R, GCSFR
Calculated MW	92156
Application Details	Western blot, 0.1-0.5 □g/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.
Source	Eukaryota
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.

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	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

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.

Images

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