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## Mouse Anti-Human G-CSFR Monoclonal Antibody Datasheet

**Product Name:** mAb anti-Human G-CSFR

**Clone No.:** S-1374

**Catalogue No.:** MO-C40045E

**Quantity:** 0.5 mg/vial

**Description:** Mouse monoclonal antibody to human granulocyte colony stimulating factor receptor (G-CSFR)

**Purification:** Protein G affinity purified

**Product Type:** Primary antibody

**Target Protein:** Human G-CSFR

**Immunogen:** Purified recombinant MBP-GCSFR fusion protein

**Fusion Myeloma:** Sp2/0-Ag14

**Specificity:** React with G-CSFR and does not cross-react with MBP or BSA (bovine serum albumin)

**Species Reactivity:** Human, others not tested

**Host / Isotype:** Mouse, IgG2a Kappa

**Formulation:** Lyophilized from a solution in 0.01M PBS, pH 7.2.

**Reconstitution:** Double distilled water is recommended to adjust the final concentration to 1.00mg/mL.

**Storage:** Store at -20°C

**Research Area:** Cytokine receptor. Hematopoiesis

**Background:** Granulocyte colony stimulating factor receptor (G-CSFR) exists on the cell surface of the hematopoietic progenitor cell in bone marrow, in mature hematopoietic cells and stromal cells. Binding with granulocyte colony stimulating factor (G-CSF) to the extracellular ligand-binding region of G-CSFR triggers G-CSFR to form homodimer. The conformational changes in G-CSFR activate the cytoplasmic portion of the receptor and trigger signal transduction through Jak Lyn, Stat and erk1/2. The pathway is important for hematopoiesis and was found to be implicated in congenital neutropenia, myelodysplastic syndrome and acute myeloid leukemia.

**Applications:** **Western Blot:** The antibody, when used at concentration of 1-10µg/mL will allow visualization of 250ng/lane of human G-CSFR-MBP.

The antibody recognizes denatured G-CSFR in Western blot following SDS-PAGE. It is suggested to use 200µg/lane of cell lysate or immunoprecipitated protein.

**References:** If research is published using this product, please inform Anogen in order to cite the reference on this datasheet. Anogen will provide one unit of product in the same category as gratitude.

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