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Mouse Anti-Human G-CSFR Monoclonal Antibody Datasheet

Product Name: mAb anti-Human G-CSFR

Clone No.: S-1284

Catalogue No.: MO-C40045D

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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