**BACKGROUND**

c-Fms/CSF-1R, also designated macrophage colony-stimulating factor receptor (M-CSFR), is a transmembrane tyrosine kinase receptor belonging to the CSF1/PDGFR receptor family. It is encoded by the c-fms proto-oncogene and is expressed in mononuclear phagocytes, oocytes, decidual cells, trophoblastic cells and some myoblasts. It is important for growth and differentiation of myeloid cells and its function can be regulated by SLAP-2. c-Fms/CSF-1R is responsible for mediating all of the functions of M-CSF. M-CSF is a glycoprotein required for the proliferation and differentiation of mononuclear phagocytes, including osteoclasts. M-CSF has also been identified as an important mediator of the inflammatory response and can regulate the release of proinflammatory cytokines from macrophages.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: CSF1R (human) mapping to 5q32; Csf1r (mouse) mapping to 18 E1.

**SOURCE**

c-Fms/CSF-1R (0.N.179) is a rat monoclonal antibody raised against the cell surface (extracellular) epitope of c-Fms/CSF-1 receptor of human origin.

**PRODUCT**

Each vial contains 200 µg IgG₂b in 1 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**

c-Fms/CSF-1R (0.N.179) is recommended for detection of c-Fms gp130 and gp150 of mouse, rat and human origin by immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1 µg per 1 x 10⁶ cells).

Suitable for use as control antibody for c-Fms/CSF-1R siRNA (h): sc-29220, c-Fms/CSF-1R siRNA (m): sc-29847, c-Fms/CSF-1R shRNA Plasmid (h): sc-29220-SH, c-Fms/CSF-1R shRNA Plasmid (m): sc-29847-SH, c-Fms/CSF-1R shRNA (h) Lentiviral Particles: sc-29220-V and c-Fms/CSF-1R shRNA (m) Lentiviral Particles: sc-29847-V.

Molecular Weight of unprocessed c-Fms/CSF-1R: 130 kDa.

Molecular Weight of processed c-Fms/CSF-1R: 165 kDa.

Positive Controls: HL-60 whole cell lysate: sc-2209, Neuro-2A whole cell lysate: sc-364185 or THP-1 cell lysate: sc-2238.

**DATA**

**SELECT PRODUCT CITATIONS**


**STORAGE**

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

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**PRODUCT**

See c-Fms/CSF-1R (B-8): sc-46662 for c-Fms/CSF-1R antibody conjugates, including AC, HRP, FITC, PE, and Alexa Fluor® 488, 546, 594, 647, 680 and 790.