

**CD115 Rat monoclonal antibody**

Catalog: MB65839

Host: Rat

Reactivity: Mouse

BackGround:

Macrophage-colony stimulating factor (M-CSF, CSF-1) receptor is an integral membrane tyrosine kinase encoded by the c-fms proto-oncogene. M-CSF receptor is expressed in monocytes (macrophages and their progenitors) and drives growth and development of this blood cell lineage. Binding of M-CSF to its receptor induces receptor dimerization, activation, and autophosphorylation of cytoplasmic tyrosine residues used as docking sites for SH2-containing signaling proteins. There are at least five major tyrosine autophosphorylation sites. Tyr723 (Tyr721 in mouse) is located in the kinase insert (KI) region. Phosphorylated Tyr723 binds the p85 subunit of PI3 kinase as well as PLC γ 2. Phosphorylation of Tyr809 provides a docking site for Shc. Overactivation of this receptor can lead to a malignant phenotype in various cell systems. The activated M-CSF receptor has been shown to be a predictor of poor outcome in advanced epithelial ovarian carcinoma and breast cancer.

Product:

Rat IgG2a kappa. Liquid in PBS, pH 7.3, and 0.02% sodium azide.

Molecular Weight:

~ 109 kDa

Swiss-Prot:

P09581

Purification&Purity:

The monoclonal antibody was affinity-purified from rat antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

IF (1/50 - 1/200)

Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

Recognizes mouse CD115

DATA:**Note:**

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

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