

## M-CSF Monoclonal Antibody

Catalog No: YM0432

Reactivity: Human

**Applications:** WB;IHC;IF;ELISA

Target: M-CSF

**Fields:** >>MAPK signaling pathway;>>Ras signaling pathway;>>Rap1 signaling

pathway;>>Cytokine-cytokine receptor interaction;>>Viral protein interaction with cytokine and cytokine receptor;>>PI3K-Akt signaling pathway;>>Osteoclast

differentiation;>>Hematopoietic cell lineage;>>TNF signaling

pathway;>>Alzheimer disease;>>Pathways of neurodegeneration - multiple

diseases;>>Rheumatoid arthritis

Gene Name: CSF1

Protein Name: Macrophage colony-stimulating factor 1

P09603

P07141

Human Gene Id: 1435

**Human Swiss Prot** 

No:

**Mouse Swiss Prot** 

No:

**Immunogen:** Purified recombinant fragment of human M-CSF expressed in E. Coli.

**Specificity:** M-CSF Monoclonal Antibody detects endogenous levels of M-CSF protein.

**Formulation :** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Monoclonal, Mouse

**Dilution :** WB 1:500 - 1:2000. IHC 1:200 - 1:1000. ELISA: 1:10000.. IF 1:50-200

**Purification :** Affinity purification

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

1/3

Molecularweight: 60kD

**Cell Pathway:** Cytokine-cytokine receptor interaction; Hematopoietic cell lineage;

**P References :** 1. J Biol Chem. 1992 Feb 5;267(4):2190-9.

2. FEBS Lett. 1987 Oct 5;222(2):341-4.

3. Mol Reprod Dev. 1997 Jan;46(1):4-10.

**Background:** 

The protein encoded by this gene is a cytokine that controls the production, differentiation, and function of macrophages. The active form of the protein is found extracellularly as a disulfide-linked homodimer, and is thought to be produced by proteolytic cleavage of membrane-bound precursors. The encoded protein may be involved in development of the placenta. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Sep 2011],

**Function:** 

function:Granulocyte/macrophage colony-stimulating factors are cytokines that act in hematopoiesis by controlling the production, differentiation, and function of 2 related white cell populations of the blood, the granulocytes and the monocytes-macrophages. CSF-1 induces cells of the monocyte/macrophage lineage. It plays a role in immunological defenses, bone metabolism, lipoproteins clearance, fertility and pregnancy.,PTM:Glycosylation and proteolytic cleavage yield different soluble forms. A high molecular weight soluble form is a proteoglycan containing chondroitin sulfate.,PTM:Isoform 1 is N- and O-glycosylated. Isoform 3 is N-glycosylated.,subunit:Homodimer or heterodimer; disulfide-linked.,

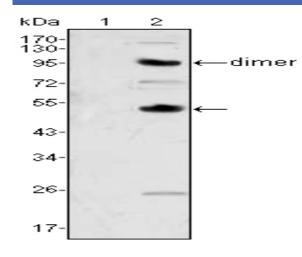
Subcellular Location:

Cell membrane; Single-pass type I membrane protein.; [Processed macrophage colony-stimulating factor 1]: Secreted, extracellular space.

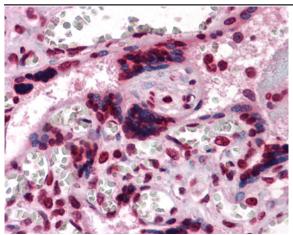
**Expression:** 

Endometrium, Kidney, Pancreatic carcinoma, Tlymphoblast, Trophoblast, Urine,

## **Products Images**



Western Blot analysis using M-CSF Monoclonal Antibody against human recombinant CSF2 (1) and CSF1 (2).



Immunohistochemistry analysis of paraffin-embedded human Placenta tissues with AEC staining using M-CSF Monoclonal Antibody.