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GM-CSF Rabbit mAb

Catalog No.: A28711 Recombinant

Basic Information

Observed MW
15 kDa/18 kDa/22 kDa

Calculated MW
16 kDa

Category
Primary antibody

Applications
WB,IF/ICC,ELISA

Cross-Reactivity
Human

CloneNo number
ARC81000

Background

The protein encoded by this gene is a cytokine that controls the production, differentiation, and function of granulocytes and macrophages. The active form of the protein is found extracellularly as a homodimer. This gene has been localized to a cluster of related genes at chromosome region 5q31, which is known to be associated with interstitial deletions in the 5q- syndrome and acute myelogenous leukemia. Other genes in the cluster include those encoding interleukins 4, 5, and 13. This gene plays a role in promoting tissue inflammation. Elevated levels of cytokines, including the one produced by this gene, have been detected in SARS-CoV-2 infected patients that develop acute respiratory distress syndrome. Mice deficient in this gene or its receptor develop pulmonary alveolar proteinosis.

Recommended Dilutions

WB	1:2000 - 1:15000
IF/ICC	1:200 - 1:600
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions (≥1:10000)a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID
1437

Swiss Prot
P04141

Immunogen
Recombinant protein (or fragment).This information is considered to be commercially sensitive.

Synonyms
CSF; GMCSF

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

Contact

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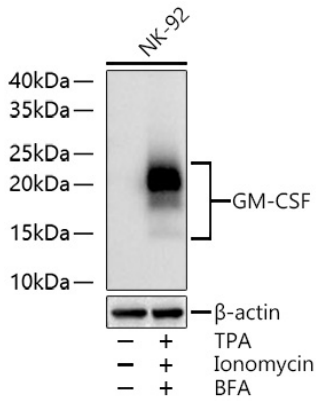
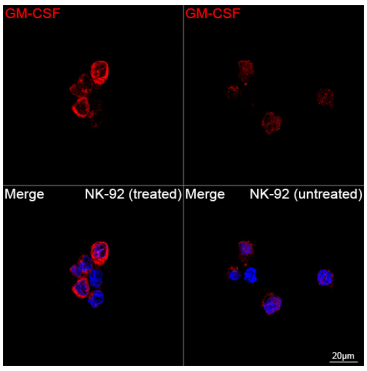
Validation Data



Western blot analysis of various lysates using GM-CSF Rabbit mAb (A28711) at 1:5000 dilution incubated overnight at 4℃. NK-92 cells were treated with TPA(80 nM) at 37℃ for 7 hours, Ionomycin(3 μM) at 37℃ for 7 hours and BFA(300 ng/mL) at 37℃ for 4 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 5 s.



Confocal imaging of NK-92 cells (treated with TPA,Ionomycin and BFA) and NK-92 cells (untreated) using GM-CSF Rabbit mAb (A28711, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.