

Datasheet for ABIN3042527
anti-GM-CSF antibody (AA 18-141)[Go to Product page](#)

3 Images

1 Publication

Overview

Quantity:	100 µg
Target:	GM-CSF (CSF2)
Binding Specificity:	AA 18-141
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GM-CSF antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Granulocyte-macrophage colony-stimulating factor(CSF2) detection. Tested with WB, IHC-P in Mouse.
Brand:	Picoband™
Immunogen:	E.coli-derived mouse GM-CSF recombinant protein (Position: A18-K141). Mouse GM-CSF shares 54% and 70% amino acid (aa) sequences identity with human and rat GM-CSF, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Granulocyte-macrophage colony-stimulating factor(CSF2) detection. Tested with WB, IHC-P in Mouse. Gene Name: colony stimulating factor 2 (granulocyte-macrophage)

Product Details

Protein Name: Granulocyte-macrophage colony-stimulating factor

Purification: Immunogen affinity purified.

Target Details

Target: GM-CSF (CSF2)

Alternative Name: CSF2 ([CSF2 Products](#))

Background: GM-CSF, Granulocyte-macrophage colony-stimulating factor, is a protein secreted by macrophages, T cells, mast cells, endothelial cells, and fibroblasts. By fluorescence in situ hybridization, the GM-CSF gene is mapped to 5q31.1. GM-CSF is a cytokine that functions as a white blood cell growth factor. GM-CSF stimulates stem cells to produce granulocytes (neutrophils, eosinophils, and basophils) and monocytes. GM-CSF is an essential regulator of neutrophil function.

Synonyms: Burst Promoting Activity antibody|CMCSF antibody|Colony stimulating factor 2 (granulocyte-macrophage) antibody|Colony Stimulating Factor 2 antibody|Colony stimulating factor antibody|Colony-stimulating factor antibody|CSF 2 antibody|CSF Alpha antibody|CSF antibody|CSF2 antibody|CSF2_HUMAN antibody|Eosinophil Colony Stimulating Factor antibody|GM-CSF antibody|GMCSF antibody|Granulocyte Macrophage Colony Stimulating Factor antibody|Granulocyte-macrophage colony-stimulating factor antibody|MGC131935 antibody|MGC138897 antibody|Molgramostin antibody|Pluripoietin Alpha antibody|Sargramostim antibody

UniProt: [P01587](#)

Pathways: [JAK-STAT Signaling](#), [Cellular Response to Molecule of Bacterial Origin](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Mouse, The detection limit for GM-CSF is approximately 1 ng/lane under reducing conditions.
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Mouse, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.
Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by

Application Details

ABIN921231 in IHC(P).

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Publications

Product cited in: Qian, Feng, Sun, Xiong, Ding, Han, Chen, Chen, Du, Wang: "Overexpression of Salusin-α Inhibits Vascular Intimal Hyperplasia in an Atherosclerotic Rabbit Model." in: **BioMed research international**, Vol. 2018, pp. 8973986, (2019) ([PubMed](#)).

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Wu, Chang, Ren, Hu, Li, Liu: "Bindarit reduces the incidence of acute aortic dissection complicated lung injury via modulating NF-κB pathway." in: **Experimental and therapeutic**

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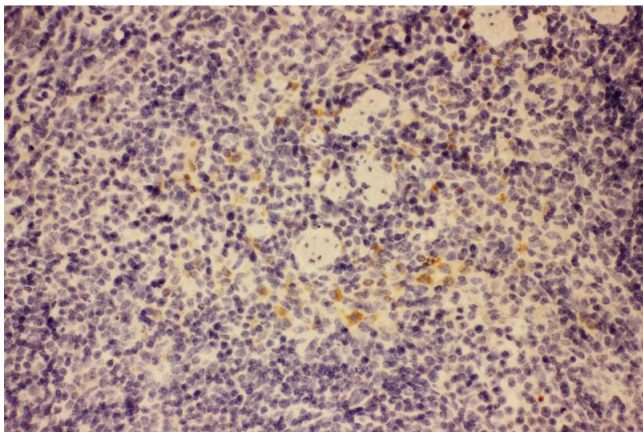
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Images



Western Blotting

Image 1. Anti-GM-CSF Picoband antibody, All lanes: Anti-GM-CSF at 0.5ug/ml WB: Recombinant Mouse GM-CSF Protein 0.5ng Predicted bind size: 17KD Observed bind size: 17KD



Immunohistochemistry

Image 2. Anti-GM-CSF Picoband antibody, IHC(P): Mouse Spleen Tissue



Western Blotting

Image 3. Anti-GM-CSF Picoband antibody, All lanes: Anti-GM-CSF at 0.5ug/mlWB: Recombinant Mouse GM-CSF Protein 0.5ngPredicted bind size: 17KDObserved bind size: 17KD