

## Anti-GM-CSF/CSF2 Antibody Picoband®

Catalog Number: PB9003

### About Csf2

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.

### Overview

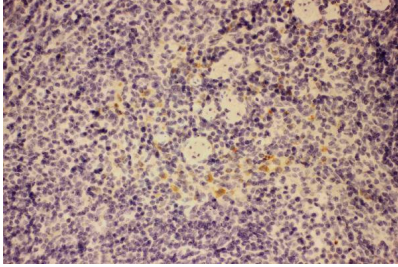
Product Name	Anti-GM-CSF/CSF2 Antibody Picoband®
Reactive Species	Mouse
Description	Boster Bio Anti-GM-CSF/CSF2 Antibody Picoband® catalog # PB9003. Tested in IHC, WB applications. This antibody reacts with Mouse. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P01587

### Technical Details

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.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.

Purification	Immunogen affinity purified.
Suggested Dilutions	Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Mouse Western blot, 0.1-0.5ug/ml, Mouse

## Anti-GM-CSF/CSF2 Antibody Picoband® (PB9003) Images



IHC analysis of GM-CSF using anti-GM-CSF antibody (PB9003). GM-CSF was detected in a paraffin-embedded section of mouse spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 ug/ml rabbit anti-GM-CSF Antibody (PB9003) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.



Western blot analysis of GM-CSF using anti-GM-CSF antibody (PB9003). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. Lane 1: recombinant mouse GM-CSF protein 0.5 ng. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-GM-CSF antigen affinity purified polyclonal antibody (Catalog # PB9003) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for GM-CSF at approximately 17 kDa. The expected band size for GM-CSF is at 17 kDa.

## 1 Publications Citing This Product

1. PubMed ID: 27229324, The Balance between Conventional DCs and Plasmacytoid DCs Is Pivotal for Immunological Tolerance during Pregnancy in the Mouse

Visit [bosterbio.com/anti-gm-csf-picoband-trade-antibody-pb9003-boster.html](http://bosterbio.com/anti-gm-csf-picoband-trade-antibody-pb9003-boster.html) to see all 1 publications.

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Anti-GM-CSF/CSF2 Antibody

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