

Anti-G-CSF/CSF3 Antibody Picoband™

Catalog Number: PB9577

About Csf3

Granulocyte-colony stimulating factor (G-CSF or GCSF), also known as colony-stimulating factor 3 (CSF 3), is a glycoprotein that stimulates the bone marrow to produce granulocytes and stem cells and release them into the bloodstream. Functionally, it is a cytokine and hormone, a type of colony-stimulating factor, and is produced by a number of different tissues. The pharmaceutical analogs of naturally occurring G-CSF are called filgrastim and lenograstim. G-CSF also stimulates the survival, proliferation, differentiation, and function of neutrophil precursors and mature neutrophils.

Overview

| | |
|----------------------|---|
| Product Name | Anti-G-CSF/CSF3 Antibody Picoband™ |
| Reactive Species | Human, Mouse |
| Description | Boster Bio Anti-G-CSF/CSF3 Antibody Picoband™ catalog # PB9577. Tested in ELISA, WB applications. This antibody reacts with Human, Mouse. |
| Application | ELISA, WB |
| Clonality | Polyclonal |
| Formulation | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg 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 | P09920 |

Technical Details

| | |
|-------------------------------|--|
| Immunogen | E. coli-derived mouse G-CSF recombinant protein (Position: R47-A208). Mouse G-CSF shares 77.2% amino acid (aa) sequence identity with human G-CSF. |
| Predicted Reactive Species | Bovine |
| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot. |
| 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 | <p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.1-0.5ug/ml, Human, Mouse</p> <p>ELISA , 0.1-0.5ug/ml, Mouse</p> |

Anti-G-CSF/CSF3 Antibody Picoband™ (PB9577) Images



Figure 1. Western blot analysis of G-CSF using anti-G-CSF antibody (PB9577).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours.

Lane 1: HELA Whole Cell Lysate at 40ug.

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-G-CSF antigen affinity purified polyclonal antibody (Catalog # PB9577) 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 G-CSF at approximately 22 kDa. The expected band size for G-CSF is at 22 kDa.

3 Publications Citing This Product

1. PubMed ID: 10.1038/s41598-020-71993-w, Honey isomaltose contributes to the induction of granulocyte-colony stimulating factor (G-CSF) secretion in the intestinal epithelial cells following honey heating
2. PubMed ID: 32938976, Xu X, Asai K, Kato D, Ishiuchi K, Ding K, Tabuchi Y, Ota M, Makino T. Honey isomaltose contributes to the induction of granulocyte-colony stimulating factor (G-CSF) secretion in the intestinal epithelial cells following honey heating. Sci Rep. 2020 Sep 16;10(1):15178. doi:10.1038/s41598-020-71993-w. PMID:32938976; PMCID:PMC7494892.
3. PubMed ID: 25667662, Zhang L, Wang H, Wang T, Jiang N, Yu P, Chong Y, Fu F. Exp Ther Med. 2015 Mar;9(3):972-976. Epub 2014 Dec 24. Ferulic Acid Ameliorates Nerve Injury Induced By Cerebral Ischemia In Rats.

Visit bosterbio.com/anti-g-csf-picoband-trade-antibody-pb9577-boster.html to see all 3 publications.

Submit a product review to Biocompare.com

Submit a review of this product to Biocompare.com to receive a \$20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.



Anti-G-CSF/CSF3 Antibody ™