abcam

Product datasheet

Anti-G-CSF antibody [EPR3203(N)(B)] - BSA and Azide free ab236157

Recombinant RabMAb

7 Images

Overview

Product name	Anti-G-CSF antibody [EPR3203(N)(B)] - BSA and Azide free
Description	Rabbit monoclonal [EPR3203(N)(B)] to G-CSF - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** Flow Cyt (Intra), IP, ICC/IF, WB
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: A549, K-562, HepG2, HeLa, MCF7, MOLT-4, PC-3, KM3, NCI-H460 and HT-1376 cell lysates; Mouse and rat brain lysates. ICC/IF: BxPC-3 and HT-1376 cells. IP: G-CSF IP in K562 cell lysate. Flow Cyt (intra): K562 cells.
General notes	ab236157 is the carrier-free version of ab181053. Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information see here.

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR3203(N)(B)
Isotype	IgG

Applications

The Abpromise guarantee Our Abpromise guarantee covers the use of ab236157 in the following tested applications.

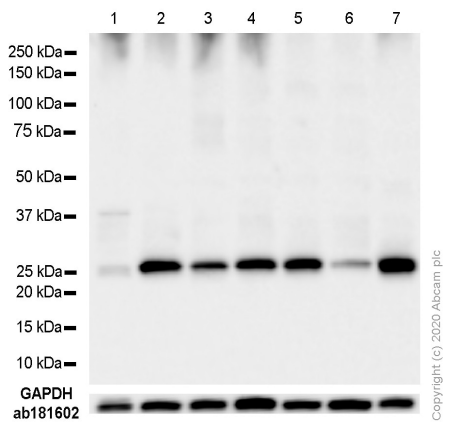
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 22 kDa (predicted molecular weight: 22 kDa).

Target

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. This CSF induces granulocytes.
Sequence similarities	Belongs to the IL-6 superfamily.
Post-translational modifications	O-glycan consists of Gal-GalNAc disaccharide which can be modified with up to two sialic acid residues (done in recombinantly expressed G-CSF from CHO cells).
Cellular localization	Secreted.

Images



Western blot - Anti-G-CSF antibody [EPR3203(N)(B)] - BSA and Azide free (ab236157)

All lanes : Anti-G-CSF antibody [EPR3203(N)(B)] (ab181053) at 1/1000 dilution

Lane 1 : A549 (Human lung carcinoma epithelial cell) cell lysate
Lane 2 : K-562 (Human chronic myelogenous leukemia lymphoblast) cell lysate
Lane 3 : HepG2 (Human hepatocellular carcinoma epithelial cell) cell lysate
Lane 4 : HeLa (Human cervix adenocarcinoma epithelial cell) cell lysate
Lane 5 : MCF7 (Human breast adenocarcinoma epithelial cell) cell lysate
Lane 6 : MOLT-4 (Human lymphoblastic leukemia T lymphoblast) cell lysate
Lane 7 : PC-3 (Human prostate adenocarcinoma epithelial cell) cell lysate

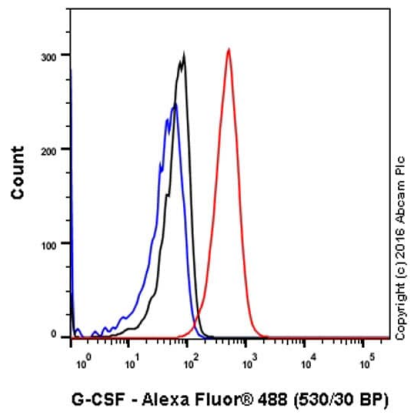
Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Predicted band size: 22 kDa
Observed band size: 25 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST

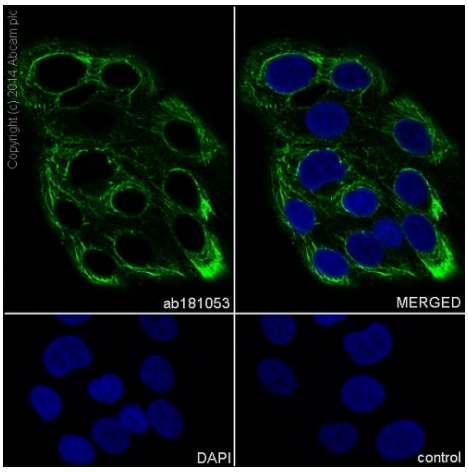
Exposure time: 4 s



Flow Cytometry (Intracellular) - Anti-G-CSF antibody [EPR3203(N)(B)] - BSA and Azide free (ab236157)

Intracellular Flow Cytometry analysis of K562 (human chronic myelogenous leukemia) cells labeling G-CSF with purified ab181053 at 1/200 dilution (10µg/mL) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. A Goat anti rabbit IgG (Alexa Fluor® 488) at 1/2000 dilution was used as the secondary antibody. Rabbit monoclonal IgG (Black) was used as the isotype control, cells without incubation with primary antibody and secondary antibody (Blue) were used as the unlabeled control.

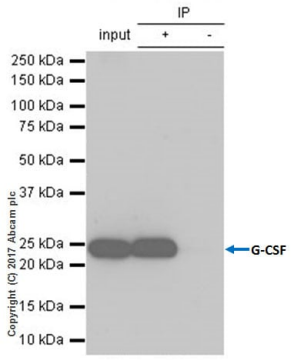
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab181053).



Immunocytochemistry/ Immunofluorescence - Anti-G-CSF antibody [EPR3203(N)(B)] - BSA and Azide free (ab236157)

Immunocytochemistry/ Immunofluorescence analysis of BxPC-3 (Human pancreas adenocarcinoma epithelial cell) cells labeling G-CSF with Purified ab181053 at 1:500 dilution (4.0µg/ml). Cells were fixed in 100% Methanol. ab150077 Goat anti rabbit IgG(Alexa Fluor® 488) was used as the secondary antibody at 1:1000 dilution. DAPI nuclear was used as a counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab181053).



Immunoprecipitation - Anti-G-CSF antibody [EPR3203(N)(B)] - BSA and Azide free (ab236157)

ab181053 (purified) at 1:100 dilution (2µg) immunoprecipitating G-CSF in K562 (Human chronic myelogenous leukemia lymphoblast) whole cell lysate.

Lane 1 (input): K562 (Human chronic myelogenous leukemia lymphoblast) whole cell lysate 10µg

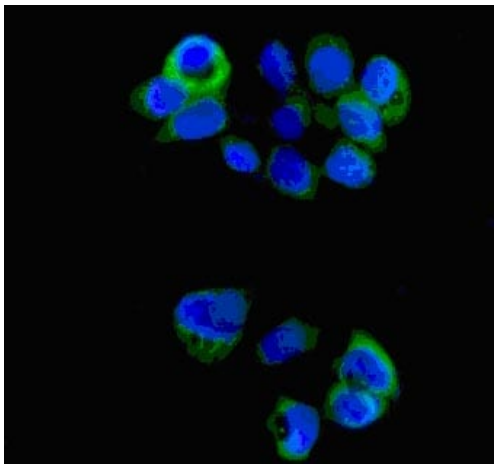
Lane 2 (+): ab181053 and K562 (Human chronic myelogenous leukemia lymphoblast) whole cell lysate

Lane 3 (-): Rabbit monoclonal IgG (ab172730) instead of ab181053 in K562 (Human chronic myelogenous leukemia lymphoblast) whole cell lysate.

For western blotting, VeriBlot for IP Detection Reagent (HRP) (ab131366) was used for detection at 1:1000 dilution.

Blocking and diluting buffer: 5% NFDM/TBST.

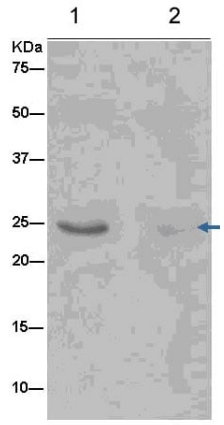
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab181053).



Immunocytochemistry/ Immunofluorescence - Anti-G-CSF antibody [EPR3203(N)(B)] - BSA and Azide free (ab236157)

Immunofluorescent analysis of HT-1376 cells (paraformaldehyde-fixed, 4%) labeling G-CSF with unpurified ab181053 at 1/100 dilution followed by Goat anti rabbit IgG (Alexa Fluor® 488) secondary at 1/200 dilution and counter-stained with DAPI (blue).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab181053).



Immunoprecipitation - Anti-G-CSF antibody [EPR3203(N)(B)] - BSA and Azide free (ab236157)

Western blot analysis of immunoprecipitation pellet from K562 cell lysate (lane 1) or a Negative control (lane 2) immunoprecipitated using unpurified ab181053 at 1/20 dilution.

Secondary: Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1500 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab181053).

Anti-G-CSF antibody [EPR3203(N)(B)] - BSA and Azide free (ab236157)

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