

For Research Use Only

G-CSF Polyclonal antibody

Catalog Number: 17185-1-AP

Featured Product

2 Publications



Basic Information

Catalog Number:

17185-1-AP

Size:

150ul, Concentration: 550 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG10968

GenBank Accession Number:

BC033245

GeneID (NCBI):

1440

UNIPROT ID:

P09919

Full Name:

colony stimulating factor 3 (granulocyte)

Calculated MW:

200 aa, 22 kDa

Observed MW:

20 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

Applications

Tested Applications:

WB, ELISA, FC (Intra)

Cited Applications:

WB, IHC

Species Specificity:

human

Cited Species:

human

Positive Controls:

WB : HeLa cells, HepG2 cells, MOLT-4 cells, MCF-7 cells, K-562 cells

Background Information

Granulocyte colony-stimulating factor (G-CSF), also referred to as CSF3, is a protective cytokine with anti-inflammatory effects. G-CSF is important in promoting survival of the granulocytic lineage cells and proliferation and migration of neutrophils as well as trophoblast cells. G-CSF acts by binding to its receptor G-CSFR (also called CSF3R), which after binding with G-CSF activates the canonical Janus kinase (Jak)/signal transducer, activator of transcription (STAT) and Ras/Raf/MAP kinase pathways. G-CSF potently stimulates the proliferation and release of peripheral blood progenitor cells into the bloodstream and is therefore used to treat neutropenia after chemotherapy. Furthermore, G-CSF levels are elevated upon intensive exercise leading to increased neutrophil counts, which are predominantly due to delayed neutrophil apoptosis.

Notable Publications

Author	Pubmed ID	Journal	Application
Zheng Zhang	31765840	Mol Immunol	IHC
Wei Jiang	36982170	Int J Mol Sci	WB, IHC

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

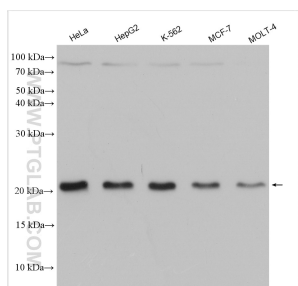
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

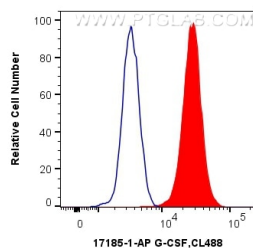
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 17185-1-AP (G-CSF antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



1×10^6 K-562 cells were intracellularly stained with 0.4 μ g Anti-Human G-CSF (17185-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 μ g Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).