

For Research Use Only

G-CSF Recombinant monoclonal antibody

Catalog Number: 86376-1-RR



Basic Information

Catalog Number:	86376-1-RR	GenBank Accession Number:	
Size:	100ul, Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI):	1440
Source:	Rabbit	UNIPROT ID:	P09919
Isotype:	IgG	Full Name:	colony stimulating factor 3 (granulocyte)
Immunogen Catalog Number:	HZ-1207	Observed MW:	20 kDa

Applications

Tested Applications:	WB, IF/ICC, FC (Intra), ELISA	Positive Controls:	
Species Specificity:	human	WB:	HeLa cells, HepG2 cells, K-562 cells, MCF-7 cells, MOLT-4 cells, A549 cells

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IF/ICC: K-562 cells,

FC (Intra): 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.

Storage

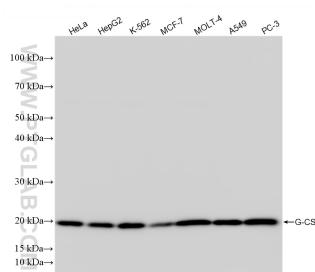
Storage: Store at -20°C. Stable for one year after shipment.
Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

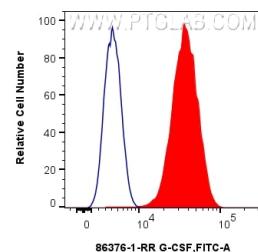
For technical support and original validation data for this product please contact:
T: 1(888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com
W: ptglab.com

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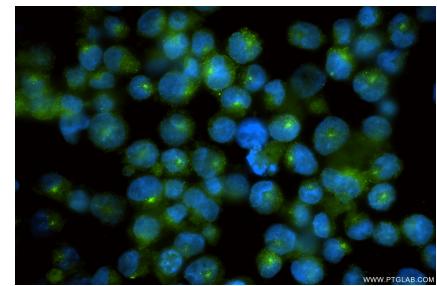
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86376-1-RR (G-CSF antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



1x10⁶ K-562 cells were intracellularly stained with 0.25 ug G-CSF Recombinant antibody (86376-1-RR, Clone:250389H1) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2) (red), or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.



Immunofluorescent analysis of (4% PFA) fixed K-562 cells using G-CSF antibody (86376-1-RR, Clone: 250389H1) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).