

For Research Use Only

# G-CSF Polyclonal antibody

Catalog Number: 30415-1-AP



## Basic Information

<b>Catalog Number:</b> 30415-1-AP	<b>GenBank Accession Number:</b> NM_009971	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 230 µg/ml	<b>GeneID (NCBI):</b> 12985	<b>Recommended Dilutions:</b> WB 1:500-1:1000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P09920	
<b>Isotype:</b> IgG	<b>Full Name:</b> colony stimulating factor 3 (granulocyte)	
	<b>Calculated MW:</b> 22kd	
	<b>Observed MW:</b> 18-20 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : HeLa cells, HepG2 cells, K-562 cells
<b>Species Specificity:</b> human, mouse	

## 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 pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

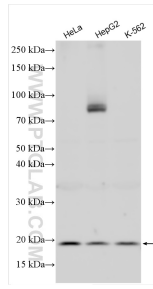
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 30415-1-AP (G-CSF antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.