

For Research Use Only

G-CSF Polyclonal antibody

Catalog Number: 17185-1-AP

2 Publications



Basic Information

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| Catalog Number: 17185-1-AP | GenBank Accession Number: BC033245 | Purification Method: Antigen affinity purification |
| Size: 150ul , Concentration: 170 µg/ml by Nanodrop and 167 µg/ml by Bradford method using BSA as the standard; | GeneID (NCBI): 1440 | Recommended Dilutions: WB 1:500-1:2000 |
| Source: Rabbit | Full Name: colony stimulating factor 3 (granulocyte) | |
| Isotype: IgG | Calculated MW: 200 aa, 22 kDa | |
| Immunogen Catalog Number: AG10968 | Observed MW: 20 kDa | |

Applications

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| Tested Applications: FC, WB, ELISA | Positive Controls: WB : HeLa cells, HepG2 cells, MOLT-4 cells, MCF-7 cells, K-562 cells |
| Cited Applications: IHC, WB | |
| Species Specificity: human | |
| Cited Species: human | |

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

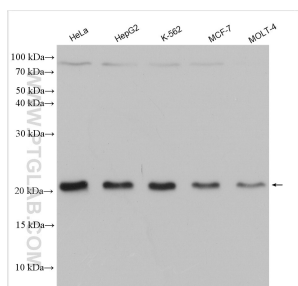
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

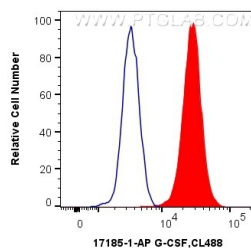
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Selected Validation Data



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).