

# Human G-CSF Antibody

## Biotin

### Polyclonal Antibody

#### Product Information

**Product No.:** G115  
**Clone:** Polyclonal  
**RRID:** AB\_2830213  
**Storage:** -20°C to -70°C

### Product Description

#### Specificity:

Rabbit Anti-Human Granulocyte Colony-Stimulating Factor (G-CSF) recognizes Human Granulocyte Colony-Stimulating Factor. This antigen affinity purified polyclonal antibody was purified using immobilized antigen agarose chromatography.

#### Background:

Granulocyte colony-stimulating factor (G-CSF or GCSF), also known as G-CSF colony-stimulating factor 3 (CSF 3) is a colony-stimulating factor hormone. It is a glycoprotein, growth factor or cytokine produced by a number of different tissues to stimulate the bone marrow to produce granulocytes and stem cells. G-CSF then stimulates the bone marrow to release them into the blood. It also stimulates the survival, proliferation, differentiation, and function of neutrophil precursors and mature neutrophils. G-CSF is produced by endothelium, macrophages, and a number of other immune cells. It stimulates the production of white blood cells. G-CSF is also used to increase the number of hematopoietic stem cells in the blood of the donor before collection by leukapheresis for use in hematopoietic stem cell transplantation.

#### Known Reactivity Species:

Human

#### Format:

Biotin

#### Immunogen:

Purified Recombinant Human G-CSF (>98%)

### Formulation

This biotinylated antigen affinity purified polyclonal antibody has been 0.2 µm filtered and lyophilized from modified Dulbecco's phosphate buffered saline (1X PBS) pH 7.2 – 7.4 containing 50 µg of bovine serum albumin per µg of antibody with no calcium, magnesium, or preservatives present.

### Storage and Stability

The lyophilized, biotinylated antigen affinity purified polyclonal antibody can be stored desiccated at -20°C to -70°C for up to twelve months from date of receipt. The reconstituted bioin conjugate can be stored for at least four weeks at 2-8°C. For long-term storage of the reconstituted conjugate, aseptically aliquot into working volumes and store at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. No detectable loss of activity was observed after six months.

### Applications

#### Applications and Recommended Usage (Quality Tested By Leinco):

**Western Blotting:** To detect Human G-CSF this biotin conjugate can be used at a concentration of 0.1 - 0.2 µg/ml. This biotin conjugate should be used in conjunction with compatible second-step reagents such as PN:A106 and a chromogenic substrate such as PN:T343. The detection limit for Human G-CSF is 5.0 ng/lane under either reducing or non-reducing conditions. The sensitivity of detection may increase up to 50 fold when a chemiluminescent substrate is used. A suitable Western blotting control is PN:G123.

**ELISA Sandwich Assay:** This antibody can be used as the detection antibody in a sandwich ELISA at a concentration of approximately 0.1-0.4 µg/ml when used in conjunction with PN:G664 as the capture antibody at 2-8 µg/ml and an optimal second step reagent such as PN:A106 for the detection of Human G-CSF.

### Country of Origin

USA