

# Anti-GCSF Receptor Antibody [PSH03-44]

## HA721998



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat
<b>Applications:</b>	WB
<b>Molecular Wt:</b>	Predicted band size: 92 kDa
<b>Clone number:</b>	PSH03-44

**Description:** The granulocyte colony-stimulating factor receptor (G-CSF-R) also known as CD114 (Cluster of Differentiation 114) is a protein that in humans is encoded by the CSF3R gene. G-CSF-R is a cell-surface receptor for the granulocyte colony-stimulating factor (G-CSF). The G-CSF receptors belong to a family of cytokine receptors known as the hematopoietin receptor family. The granulocyte colony-stimulating factor receptor is present on precursor cells in the bone marrow, and, in response to stimulation by G-CSF, initiates cell proliferation and differentiation into mature neutrophilic granulocytes and macrophages. The G-CSF-R is a transmembrane receptor that consists of an extracellular ligand-binding portion, a transmembrane domain, and the cytoplasmic portion that is responsible for signal transduction. GCSF-R ligand-binding is associated with dimerization of the receptor and signal transduction through proteins including Jak, Lyn, STAT, and Erk1/2.

**Immunogen:** Recombinant protein within human GCSF Receptor aa 651-836 / 836.

**Positive control:** A431 cell lysate, K-562 cell lysate, THP-1 cell lysate, Jurkat cell lysate, Ramos cell lysate, mouse placenta tissue lysate, mouse brain tissue lysate, mouse testis tissue lysate, rat placenta tissue lysate, rat brain tissue lysate, rat testis tissue lysate, rat skin tissue lysate.

**Subcellular location:** Cell membrane; Secreted.

**Database links:** SwissProt Q99062 Human | P40223 Mouse  
Entrez Gene: 298518 Rat

**Recommended Dilutions:**  
**WB** 1:1,000

**Storage Buffer:** PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% SodiumAzide.

**Storage Instruction:** Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

**Purity:** Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

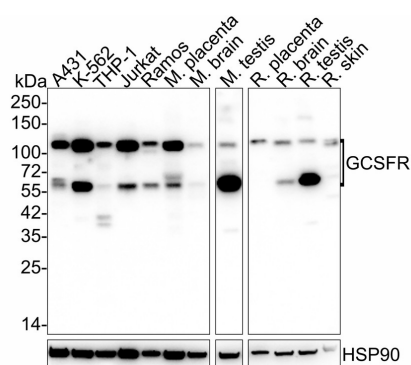
Technical:0086-571-89986345

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## Images

**Fig1:** Western blot analysis of GCSF Receptor on different lysates with Rabbit anti-GCSF Receptor antibody (HA721998) at 1/2,000 dilution.



Lane 1: A431 cell lysate (20 µg/Lane)  
 Lane 2: K-562 cell lysate (20 µg/Lane)  
 Lane 3: THP-1 cell lysate (no heat) (20 µg/Lane)  
 Lane 4: Jurkat cell lysate (20 µg/Lane)  
 Lane 5: Ramos cell lysate (20 µg/Lane)  
 Lane 6: Mouse placenta tissue lysate (40 µg/Lane)  
 Lane 7: Mouse brain tissue lysate (no heat) (40 µg/Lane)  
 Lane 8: Mouse testis tissue lysate (40 µg/Lane)  
 Lane 9: Rat placenta tissue lysate (40 µg/Lane)  
 Lane 10: Rat brain tissue lysate (no heat) (40 µg/Lane)  
 Lane 11: Rat testis tissue lysate (40 µg/Lane)  
 Lane 12: Rat skin tissue lysate (no heat) (40 µg/Lane)

Predicted band size: 92 kDa  
 Observed band size: 50-110 kDa

Exposure time: 1 minute 40 seconds;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDm/TBST for 1 hour at room temperature. The primary antibody (HA721998) at 1/2,000 dilution was used in 5% NFDm/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

### Background References

1. Zhang Y et al. GCSF deficiency attenuates nonalcoholic fatty liver disease through regulating GCSFR-SOCS3-JAK-STAT3 pathway and immune cells infiltration. *Am J Physiol Gastrointest Liver Physiol.* 2021 Apr
2. Geng D et al. GCSF receptor regulates antigen uptake and expression of cytokines and costimulatory molecules in dendritic cells. *Mol Immunol.* 2007 Jan

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