

## Human CD114 ELISA Kit | CSF3R elisa kit

Human CD114 ELISA Kit

CATALOG #  
**AAA263036**

REACTIVITY  
**Human**

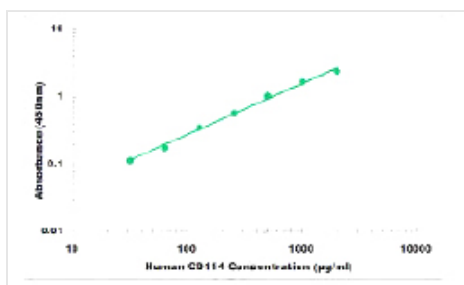
### PRODUCT SYNONYMS

CD114; Human CD114 ELISA Kit; GCSFR; Granulocyte colony-stimulating factor receptor; G-CSF receptor; G-CSF-R; CSF3R elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                            |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                                                      |
| Specificity             | The Human CD114 ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Human CD114 proteins within the range of 31.2 pg/ml - 2000 pg/ml. |
| Sequence Length         | 836                                                                                                                                                                                        |
| Samples                 | Cell Culture Supernates, Serum, Plasma                                                                                                                                                     |
| Sensitivity             | <10 pg/ml                                                                                                                                                                                  |
| Preparation and Storage | Shipped and store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.                                                                                |

### IMAGES



Standard Curve (Sample)

### ADDITIONAL INFORMATION

#### Related Product Information for CSF3R elisa kit

**Principle of the Assay:** The Human CD114 ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Human CD114 in Cell Culture Supernates, Serum, Plasma. This assay employs an antibody specific for Human CD114 coated on a 96-well plate. Standards and samples are pipetted into the wells and CD114 present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Human CD114 antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of CD114 bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm.

**Background:** 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. It is mapped to 1p35-p34.3. G-CSF-R is a cell-surface receptor for the granulocyte colony-stimulating factor (G-CSF). And 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. In addition, GCSF-R ligand-binding is associated with dimerization of the receptor and signal transduction through proteins including Jak, Lyn, STAT, and Erk1/2.

NCBI AND UNIPROT INFORMATION

|                                  |                                                          |
|----------------------------------|----------------------------------------------------------|
| NCBI GI #                        | 4503081                                                  |
| NCBI GeneID                      | 1441                                                     |
| NCBI Accession #                 | NP_000751.1                                              |
| NCBI GenBank Nucleotide #        | NM_000760.3                                              |
| UniProt Accession #              | Q99062                                                   |
| Molecular Weight                 | 86,609 Da                                                |
| NCBI Official Full Name          | granulocyte colony-stimulating factor receptor isoform a |
| NCBI Official Synonym Full Names | colony stimulating factor 3 receptor                     |
| NCBI Official Symbol             | CSF3R                                                    |
| NCBI Official Synonym Symbols    | SCN7; CD114; GCSFR                                       |
| NCBI Protein Information         | granulocyte colony-stimulating factor receptor           |
| UniProt Protein Name             | Granulocyte colony-stimulating factor receptor           |
| UniProt Gene Name                | CSF3R                                                    |
| UniProt Synonym Gene Names       | GCSFR; G-CSF receptor; G-CSF-R                           |
| UniProt Entry Name               | CSF3R_HUMAN                                              |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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