

CD114
Purified Mouse Monoclonal Antibody
Catalog # AO2718a**Specification**

CD114 - Product Information

Application	E, WB, IHC
Primary Accession	Q99062
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Calculated MW	92.2kDa KDa

Immunogen

Purified recombinant fragment of human CD114 (AA: extra 25-187) expressed in E. Coli.

Formulation

Purified antibody in PBS with 0.05% sodium azide

CD114 - Additional Information

Gene ID 1441

Other Names

CSF3R; SCN7; GCSFR

Dilution

E~~ 1/10000

WB~~ 1/500 - 1/2000

IHC~~ 1/200 - 1/1000

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

CD114 is for research use only and not for use in diagnostic or therapeutic procedures.

CD114 - Protein Information

Name CSF3R

Synonyms GCSFR

Function

Receptor for granulocyte colony-stimulating factor (CSF3), essential for granulocytic maturation. Plays a crucial role in the proliferation, differentiation and survival of cells along the neutrophilic

lineage. In addition it may function in some adhesion or recognition events at the cell surface.

Cellular Location

[Isoform 2]: Secreted.

Tissue Location

One or several isoforms have been found in myelogenous leukemia cell line KG-1, leukemia U-937 cell line, in bone marrow cells, placenta, and peripheral blood granulocytes. Isoform GCSFR-2 is found only in leukemia U-937 cells. Isoform GCSFR-3 is highly expressed in placenta

CD114 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CD114 - Images

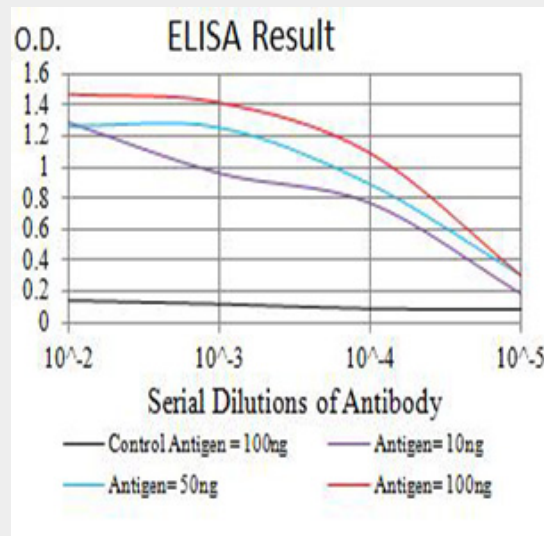


Figure 1: Black line: Control Antigen (100 ng); Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)

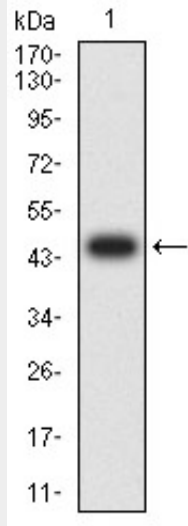


Figure 2:Western blot analysis using CD114 mAb against human CD114 (AA: extra 25-187) recombinant protein. (Expected MW is 46.5 kDa)

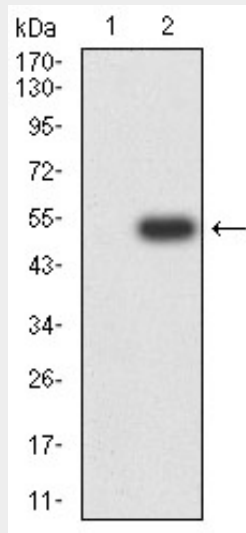


Figure 3:Western blot analysis using CD114 mAb against HEK293 (1) and CD114 (AA: extra 25-187)-hlgGFc transfected HEK293 (2) cell lysate.

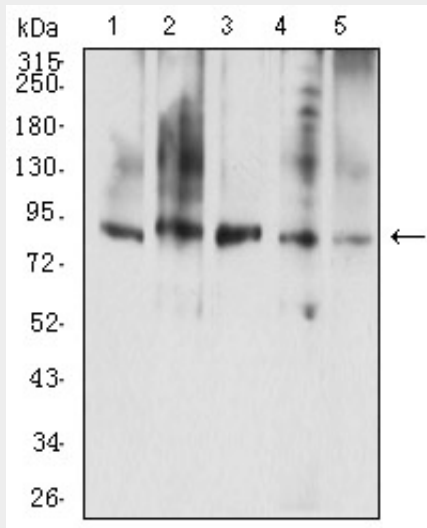


Figure 4:Western blot analysis using CD114 mouse mAb against A431 (1), K562 (2), THP-1 (3), MOLT4 (4), and Jurkat (5) cell lysate.

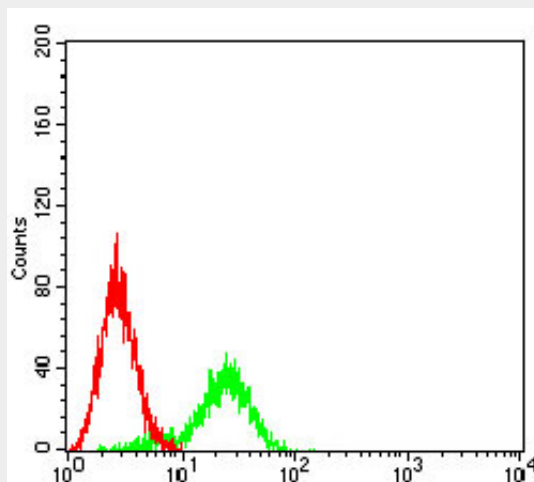


Figure 5:Flow cytometric analysis of Ramos cells using CD114 mouse mAb (green) and negative control (red).

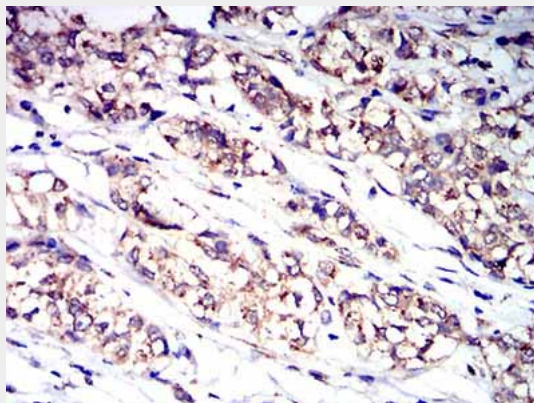


Figure 6:Immunohistochemical analysis of paraffin-embedded bladder cancer tissues using CD114 mouse mAb with DAB staining.

CD114 - References

1.Clin Cancer Res. 2016 Feb 1;22(3):757-64.2.World J Gastroenterol. 2014 Jan 28;20(4):1074-8.