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**Product Name: CD114 Mouse Monoclonal Antibody****Catalog #: AMM82012**

For research use only.

**Summary**

|                      |   |
|----------------------|---|
| <b>Description</b>   | Mouse monoclonal Antibody   |
| <b>Host</b>          | Mouse   |
| <b>Application</b>   | WB,IHC,ELISA,FC   |
| <b>Reactivity</b>    | Human   |
| <b>Conjugation</b>   | Unconjugated  |
| <b>Modification</b>  | Unmodified  |
| <b>Isotype</b>       | Mouse IgG1  |
| <b>Clonality</b>     | Monoclonal  |
| <b>Form</b>          | Liquid  |
| <b>Concentration</b> | 1mg/ml  |
| <b>Storage</b>       | Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles. |
| <b>Shipping</b>      | Ice bags  |
| <b>Buffer</b>        | Purified antibody in PBS with 0.05% sodium azide                            |
| <b>Purification</b>  | Affinity Purification   |

**Application**

|                         |  |
|-------------------------|--|
| <b>Dilution Ratio</b>   | WB 1:500-1:2000,IHC 1:200-1:1000,ELISA 1:5000-1:20000,FC 1:200-1:400 |
| <b>Molecular Weight</b> | 92.2kDa  |

**Antigen Information**

|                          |   |
|--------------------------|---|
| <b>Gene Name</b>         | CD114   |
| <b>Alternative Names</b> | CSF3R; SCN7; GCSFR  |
| <b>Gene ID</b>           | 1441.0  |
| <b>SwissProt ID</b>      | Q99062  |
| <b>Immunogen</b>         | Purified recombinant fragment of human CD114 (AA: extra 25-187) expressed in E. Coli. |

**Background**

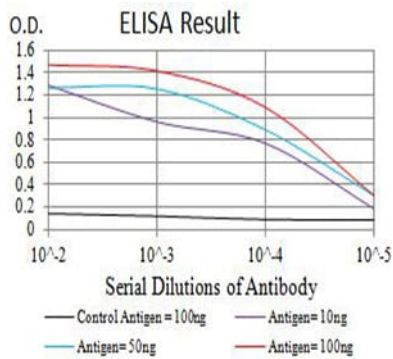
The protein encoded by this gene is the receptor for colony stimulating factor 3, a cytokine that controls the production, differentiation, and function of granulocytes. The encoded protein, which is a member of the family of cytokine receptors, may also function in some cell surface adhesion or recognition processes. Alternatively spliced transcript variants have been

described. Mutations in this gene are a cause of Kostmann syndrome, also known as severe congenital neutropenia.

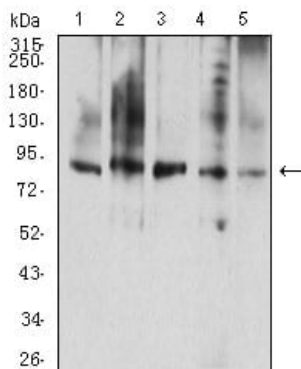
## Research Area

PI3K-Akt signaling pathway, Jak-STAT signaling pathway

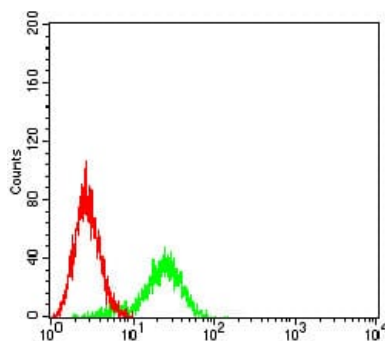
## Image Data



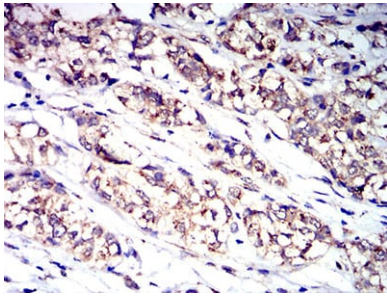
Black line: Control Antigen (100 ng); Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)



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



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



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