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APC Rabbit anti-Human CD114/G-CSFR mAb

Catalog No.: A28578

Basic Information

Observed MW

Calculated MW
92 kDa

Category
Primary antibody

Applications
FC

Cross-Reactivity
Human

CloneNo number
ARC80245

Conjugate
APC. Ex:650nm. Em:660nm.

Background

The granulocyte colony-stimulating factor receptor (G-CSF-R) is a transmembrane protein composed of an immunoglobulin-like (Ig-like) domain, a cytokine receptor homology (CRH) domain, and three fibronectin type III (FN III) domains. G-CSF-R is expressed across all granulocyte lineages, including progenitor cells, and has also been detected in monocytes, T and B lymphocytes, and non-hematopoietic tissues such as cardiomyocytes and neural stem cells. Its primary ligand is the cytokine granulocyte colony-stimulating factor (G-CSF). Lacking intrinsic tyrosine kinase activity, G-CSF-R undergoes a conformational change upon ligand binding, leading to the activation of downstream signaling pathways including Jak/Stat, PI3K/Akt, and MAPK. G-CSF promotes the differentiation and proliferation of myeloid progenitors into neutrophils. Mutations in the G-CSF-R gene, CSF3R, are associated with multiple disorders, including severe congenital neutropenia (SCN), chronic neutrophilic leukemia (CNL), and atypical chronic myeloid leukemia (aCML).

Recommended Dilutions

FC	5 µl per 10^6 cells in 100 µl volume

Immunogen Information

Gene ID
1441

Swiss Prot
Q99062

Immunogen
Recombinant protein (or fragment).This information is considered to be commercially sensitive.

Synonyms
SCN7; CD114; GCSFR

Contact

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Product Information

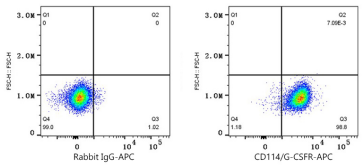
Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at 2-8℃. Avoid freeze.
Buffer: PBS with 0.09% Sodium azide,0.2% BSA,pH7.3.

Validation Data



Flow cytometry: 1X106 Human peripheral blood granulocytes were surface-stained with APC Rabbit IgG isotype control (A24173,5 µl/Test,left) or APC Rabbit anti-Human CD114/G-CSFR mAb (A28578,5 µl/Test,right).