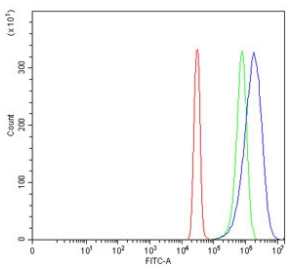
CD64 Antibody / FCGR1A (RQ7170)

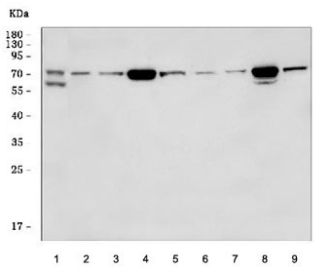
Catalog No.	Formulation	Size
RQ7170	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P12314
Applications	Western Blot : 0.5-1ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This CD64 antibody is available for research use only.



CD64 Antibody SiHa Cell FACS. Flow cytometry testing of human SiHa cells with CD64 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= CD64 antibody.



CD64 Antibody Multi-Species WB. Western blot analysis of 1) human ThP-1, 2) rat spleen, 3) rat thymus, 4) rat PC-3, 5) mouse EL-4, 6) mouse spleen, 7) mouse thymus, 8) mouse RAW264.7, and 9) mouse ANA-1 cell lysates using CD64 Antibody / High-Affinity Fc Gamma Receptor. Immunoreactive bands are detected within the expected approximately 39-75 kDa molecular weight range, consistent with glycosylation-dependent migration of FCGR1A / CD64, a leukocyte-associated Fc receptor involved in monocyte, macrophage, and innate immune signaling pathways.

Description

CD64 Antibody specifically detects High affinity immunoglobulin gamma Fc receptor I, a protein that in humans is encoded by the FCGR1A gene. It is mapped to 1q21.2. This gene encodes a protein that plays an important role in the immune response. This protein is a high-affinity Fc-gamma receptor. The gene is one of three related gene family members located on chromosome 1.

Researchers studying Fc receptor signaling, monocyte activation, and antibody-dependent immune responses may also benefit from the CD64 Antibody / High-Affinity Fc Gamma Receptor page featuring the widely published clone 10.1 and flow cytometry validation in PBMC immune cell populations.

Application Notes

Optimal dilution of the CD64 antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids A191-D254) was used as the immunogen for the CD64 antibody.

Storage

After reconstitution, the CD64 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.