

CD119
Purified Mouse Monoclonal Antibody
Catalog # AO2712a**Specification**

CD119 - Product Information

Application	E, WB
Primary Accession	P15260
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Calculated MW	54.4kDa KDa

Immunogen

Purified recombinant fragment of human CD119 (AA: extra 18-245) expressed in E. Coli.

Formulation

Purified antibody in PBS with 0.05% sodium azide

CD119 - Additional Information

Gene ID 3459

Other Names

IFNGR1; IFNGR; IMD27A; IMD27B

Dilution

E~~ 1/10000

WB~~ 1/500 - 1/2000

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

CD119 is for research use only and not for use in diagnostic or therapeutic procedures.

CD119 - Protein Information

Name IFNGR1 ([HGNC:5439](#))

Function

Receptor subunit for interferon gamma/INFG that plays crucial roles in antimicrobial, antiviral, and antitumor responses by activating effector immune cells and enhancing antigen presentation (PubMed:20015550). Associates with transmembrane accessory factor IFNGR2 to form a functional receptor (PubMed:10986460),

PubMed:2971451,
PubMed:7615558,
PubMed:7617032,
PubMed:7673114).
Upon ligand binding, the intracellular domain of IFNGR1 opens out to allow association of downstream signaling components JAK1 and JAK2. In turn, activated JAK1 phosphorylates IFNGR1 to form a docking site for STAT1. Subsequent phosphorylation of STAT1 leads to dimerization, translocation to the nucleus, and stimulation of target gene transcription (PubMed:28883123). STAT3 can also be activated in a similar manner although activation seems weaker. IFNGR1 intracellular domain phosphorylation also provides a docking site for SOCS1 that regulates the JAK-STAT pathway by competing with STAT1 binding to IFNGR1 (By similarity).

Cellular Location

Cell membrane; Single-pass type I membrane protein

CD119 - 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](#)

CD119 - Images

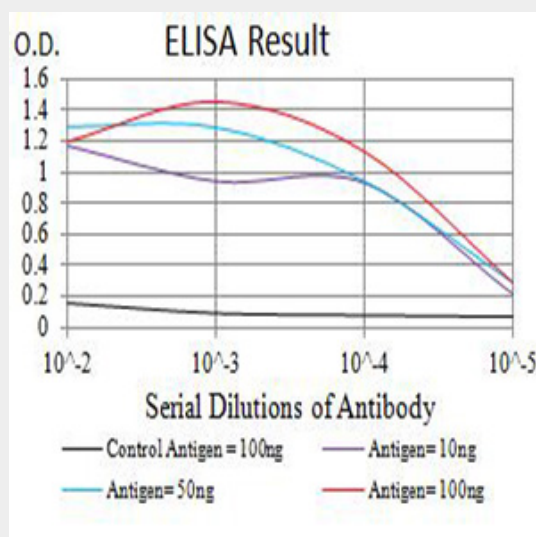


Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

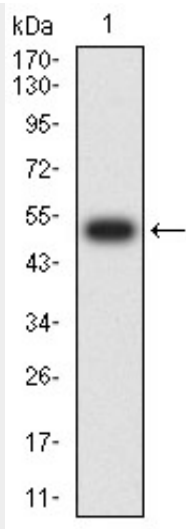


Figure 2: Western blot analysis using CD119 mAb against human CD119 (AA: extra 18-245) recombinant protein. (Expected MW is 51.7 kDa)

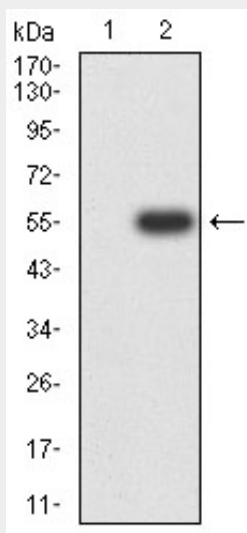


Figure 3: Western blot analysis using CD119 mAb against HEK293 (1) and CD119 (AA: extra 18-245)-hlgGfc transfected HEK293 (2) cell lysate.

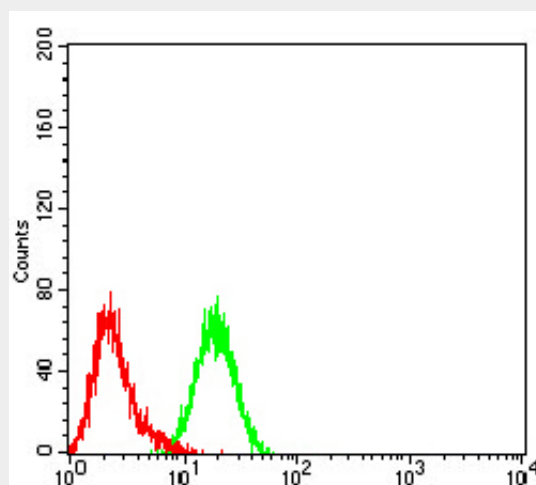


Figure 4: Flow cytometric analysis of K562 cells using CD119 mouse mAb (green) and negative

control (red).

CD119 - References

1.J Clin Immunol. 2014 Jan;34(1):84-93. 2.J Allergy Clin Immunol. 2014 Feb;133(2):591-2.