

**CD119**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO2713a****Specification**

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**CD119 - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | <b>E, WB</b>           |
| Primary Accession | <a href="#">P15260</a> |
| Reactivity        | <b>Human</b>           |
| Host              | <b>Mouse</b>           |
| Clonality         | <b>Monoclonal</b>      |
| Isotype           | <b>Mouse IgG1</b>      |
| Calculated MW     | <b>54.4kDa KDa</b>     |

**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:<a href="http://www.uniprot.org/citations/20015550" target="\_blank">20015550</a>). Associates with transmembrane accessory factor IFNGR2 to form a functional receptor (PubMed:<a href="http://www.uniprot.org/citations/10986460" target="\_blank">10986460</a>),

PubMed:<a href="http://www.uniprot.org/citations/2971451" target="\_blank">2971451</a>, PubMed:<a href="http://www.uniprot.org/citations/7615558" target="\_blank">7615558</a>, PubMed:<a href="http://www.uniprot.org/citations/7617032" target="\_blank">7617032</a>, PubMed:<a href="http://www.uniprot.org/citations/7673114" target="\_blank">7673114</a>). 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:<a href="http://www.uniprot.org/citations/28883123" target="\_blank">28883123</a>). 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

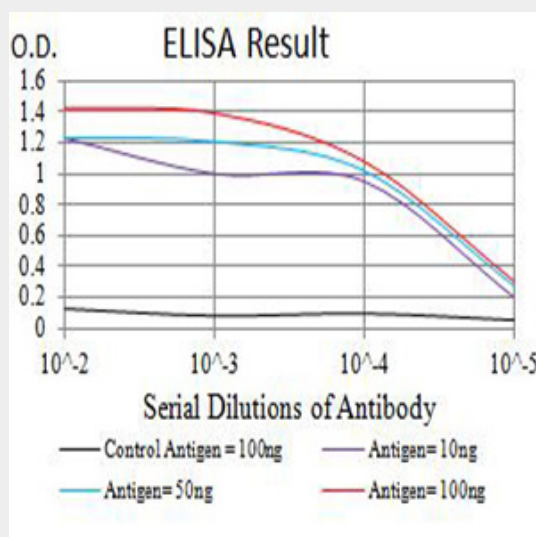


Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

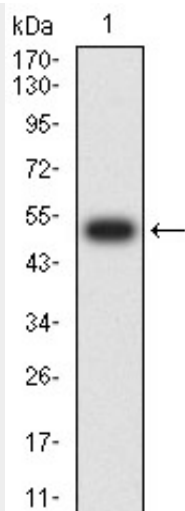


Figure 2: Western blot analysis using CD119 mAb against human CD119 (AA: extra 18-245) recombinant protein. (Expected MW is 51.7 kDa)

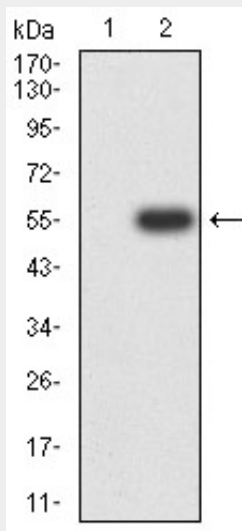


Figure 3: Western blot analysis using CD119 mAb against HEK293 (1) and CD119 (AA: extra 18-245)-hlgGFc transfected HEK293 (2) cell lysate.

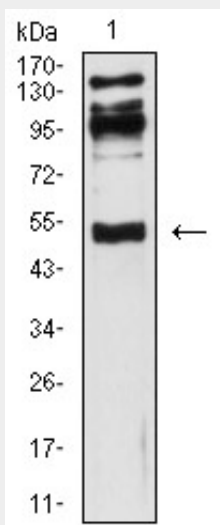


Figure 4: Western blot analysis using CD119 mouse mAb against HepG2 (1) cell lysate.

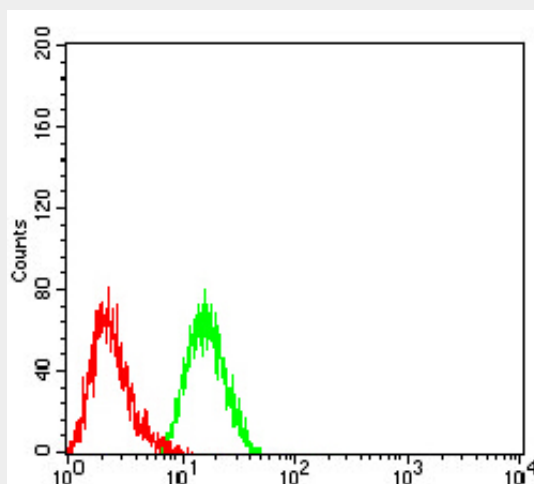


Figure 5: Flow cytometric analysis of K562 cells using CD119 mouse mAb (green) and negative control (red).

#### CD119 - References

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