10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CD119

Purified Mouse Monoclonal Antibody
Catalog # AO2712a

Product Information

Application	WB, IHC, ICC, E
Primary Accession	P15260
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	5H1C9
Isotype	Mouse IgG1
Calculated MW	54405
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

Additional Information

Gene ID	3459
Other Names	IFNGR1; IFNGR; IMD27A; IMD27B
Dilution	WB~~ 1/500 - 1/2000 IHC~~1:100~500 ICC~~N/A E~~ 1/10000
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.

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

References

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

Images

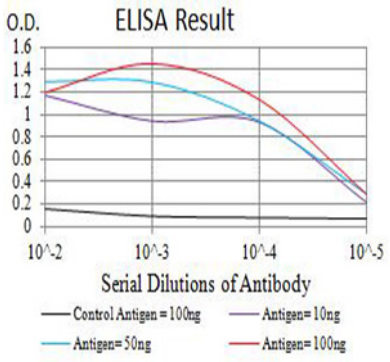


Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

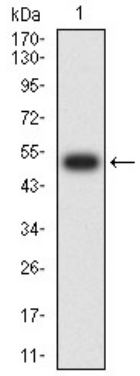


Figure 2:Western blot analysis using CD119 mAb against human CD119 (AA: extra 18-245) recombinant protein. (Expected MW is 51.7 kDa)

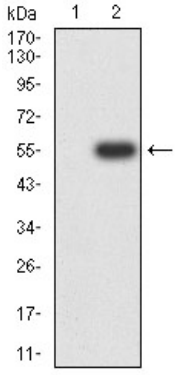
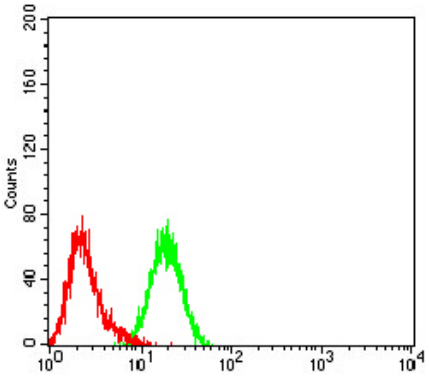


Figure 3:Western blot analysis using CD119 mAb against HEK293 (1) and CD119 (AA: extra 18-245)-hIgGFc transfected HEK293 (2) cell lysate.

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



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