

PE anti-human CD126 (IL-6Rα) Antibody

Catalog# / Size 352803 / 25 tests

352804 / 100 tests

Clone UV4

Other Names IL-6R1, gp80, IL-6 receptor alpha, IL-6R

Isotype Mouse IgG1, κ

Description CD126 is an 80 kD IL-6 receptor α chain also known as IL-6R. It is a member of the

immunoglobulin superfamily that is expressed on plasma cells, T cells, activated B cells, monocytes, granulocytes, hepatocytes, epithelial cells, and fibroblasts. Functional IL-6 receptors are formed by the non-covalent association of CD126 and the IL-6 receptor β chain (CD130 or gp130). CD126 binds IL-6 with low affinity but does not signal. The β chain (gp130, CD130) does not bind IL-6 by itself but associates with the α -chain/IL-6 complex to initiate signal transduction. IL-6 binding to the receptor complex results in the stimulation of B and T cells, and hematopoietic precursor proliferation and differentiation. A soluble form of

CD126 has been found in human serum.

Product Details

Reactivity Human, African Green, Baboon, Cynomolgus, Rhesus

Antibody Type Monoclonal

Host Species Mouse

Immunogen Human myeloma cell line U266

Formulation Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin

USA)

Preparation The antibody was purified by affinity chromatography and conjugated with PE under optimal

conditions.

Concentration Lot-specific (please contact technical support for concentration and total µg amount, or use our Lookup

tool if you have a lot number.

Storage & Handling The antibody solution should be stored undiluted between 2°C and 8°C, and protected from

prolonged exposure to light. Do not freeze.

Application FC - Quality tested

Recommended Usage Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric

analysis. For flow cytometric staining, the suggested use of this reagent is 5 μ l per million cells in 100

RRID

 μl staining volume or 5 μl per 100 μl of whole blood.

Excitation Laser Blue Laser (488 nm)

Green Laser (532 nm)/Yellow-Green Laser (561 nm)

Application Notes Additional reported applications (for the relevant formats) include: blocking of IL-6 binding to IL-6R.

Application References

1. Huang YW and Vitetta ES. 1993. Hybridoma 12:621.

(PubMed link indicates BioLegend citation)

Product Citations

1. Ferreira R, et al. 2013. PLoS Genet. 9:1003444. PubMed

- 2. Perrigue P, et al. 2015. Mol Cancer Res. 13:636. PubMed
- 3. Eriksson E, et al. 2016. Gene Ther. 10.1038/gt.2016.80. PubMed
- Saga R, et al. 2019. Oncol Lett. 17:3555. PubMed

AB_10897103 (BioLegend Cat. No. 352803) AB_10900066 (BioLegend Cat. No. 352804)

Antigen Details

Structure Ig superfamily, associates with IL-6Rβ chain (CD130, gp130), 80 kD

Distribution Plasma cells, T cells, monocytes, hepatocytes, activated B cells, granulocytes, epithelial cells, and

fibroblasts

Function Stimulates T cells, B cells, and hematopoietic precursor proliferation and differentiation

Interaction CD130, c-Src, STAT3, WWP1, WWP2

Ligand/Receptor IL-6

Cell Type B cells, Epithelial cells, Fibroblasts, Granulocytes, Monocytes, Plasma cells, T cells

Biology Area Cell Biology, Immunology, Innate Immunity, Neuroinflammation, Neuroscience, Signal Transduction

Molecular Family CD Molecules, Cytokine/Chemokine Receptors

Antigen References 1. Taga T, et al. 1997. Annu. Rev. Immunol. 15:797.

2. Fitzgerald K, et al. 2001. The Cytokine FactsBook. Academic Press London.

Boulanger MJ, et al. 2003. Science 300:2101.
Gaillard JP, et al. 1993. Eur. J. Immunol. 23:820.

Gene ID 3570

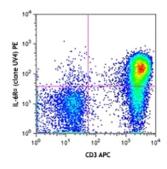
Related Protocols

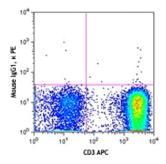
Cell Surface Flow Cytometry Staining Protocol

Other Formats

APC anti-human CD126 (IL-6Rα), Biotin anti-human CD126 (IL-6Rα), Purified anti-human CD126 (IL-6Rα), PerCP/Cyanine5.5 anti-human CD126 (IL-6Rα), PE/Cyanine7 anti-human CD126 (IL-6Rα), TotalSeq™-A0819 anti-human CD126 (IL-6Rα), TotalSeq™-C0819 anti-human CD126 (IL-6Rα)

Product Data





Human peripheral blood lymphocytes were stained with CD3 APC and IL-6R α (clone UV4) PE (top) or mouse IgG1, κ PE isotype control (bottom).

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