

PE anti-human CD126 (IL-6R α)

Catalog # / Size: 2364015 / 25 tests
2364020 / 100 tests

Clone: UV4

Isotype: Mouse IgG1, κ

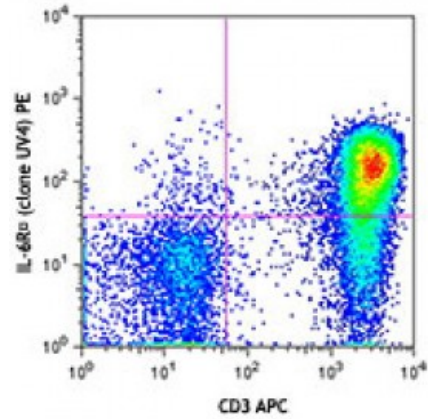
Immunogen: Human myeloma cell line U266

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.

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

Concentration: Lot-specific



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).

Applications:

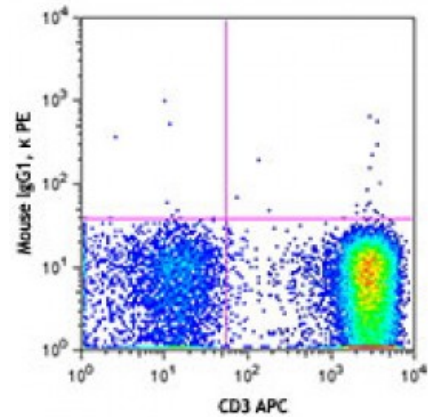
Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 microL to 5 microL per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 microL staining volume or per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

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

Application References:

- Huang YW and Vitetta ES. 1993. *Hybridoma* 12:621.
- Ferreira RC, et al. 2013. *PLoS Genet.* 9:1003444. [PubMed](#)
- Perriquer PM, et al. 2015. *Mol Cancer Res.*13:636. [PubMed](#)



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.

- 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.
 3. Boulanger MJ, *et al.* 2003. *Science* 300:2101.
 4. Gaillard