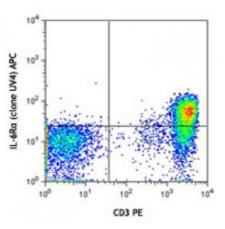
## **Product Data Sheet**

## APC anti-human CD126 (IL-6Rα)

Catalog # / Size:	2364030 / 100 tests 2364025 / 25 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 APC under optimal conditions. The solution is free of unconjugated APC and unconjugated antibody.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
<b>Concentration:</b>	Lot-specific



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

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## **Applications:**

Applications:	Flow Cytometry	y 10 <sup>3</sup>	
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 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.	Ddy 10 <sup>2</sup> 10 <sup>1</sup> 10 <sup>0</sup> 10 <sup>0</sup> 10 <sup>1</sup> 10 <sup>2</sup> 10 <sup>2</sup> 10 <sup>3</sup> 10 <sup>4</sup> CD3 PE	
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. <i>Hybridoma</i> 12:621. 2. Krow-Lucal ER, <i>et al.</i> 2014. <i>Blood.</i> 123:1897. <u>PubMed</u>		
Description:	CD126 is an 80 kD IL-6 receptor $\alpha$ 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 $\beta$ chain (CD130 or gp130). CD126 binds IL-6 with low affinity but does not signal. The $\beta$ chain (gp130, CD130) does not bind IL-6 by itself but associates with the $\alpha$ -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, <i>et al.</i> 1997. <i>Annu. Rev. Immunol.</i> 15:797. 2. Fitzgerald K, <i>et al.</i> 2001. The Cytokine FactsBook. Academic Press London.		

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