

# CD126 Monoclonal Antibody (D7715A7), PE, eBioscience™

Product Details	
Size	25 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2b
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	D7715A7
Conjugate	PE
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_996658

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.125 µg/test	2 Publications

## Product Specific Information

Description: The monoclonal antibody D7715A7 recognizes mouse CD126, the IL-6 receptor alpha chain, a member of the Ig superfamily. CD126 can heterodimerize with CD130 (gp130) to form the high affinity IL-6 receptor. Once IL-6 is bound, signaling from the CD130 subunit is initiated and the receptor complex is internalized. The IL-6 receptor is also reported to exist as a soluble version, which bound to IL-6 acts in trans to signal. Expression is found on T lymphocytes in the periphery and during development in the thymus is restricted to SP populations, unlike gp130 which is expressed in all thymocytes. Additional expression has been shown on activated B lymphocytes, macrophages, granulocytes and CD34+ hematopoietic progenitor cells. The monoclonal antibody D7715A7 binding can be blocked addition of ligand (IL-6).

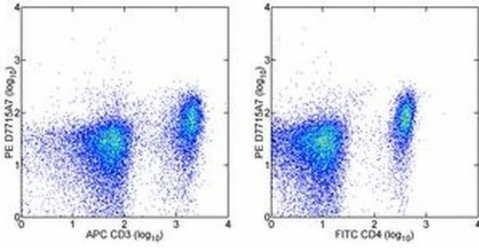
Applications Reported: This D7715A7 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This D7715A7 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.125 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test.

Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

## Product Images For CD126 Monoclonal Antibody (D7715A7), PE, eBioscience™



### CD126 Antibody (12-1261-80) in Flow

Staining of BALB/c splenocytes with Anti-Mouse CD3e APC (Product # 17-0031-82) (left) or Anti-Mouse CD4 FITC (Product # 11-0041-82) (right) and 0.06 µg of Anti-Mouse CD126 PE. Cells in the lymphocyte gate were used for analysis.

## 2 References

### Flow Cytometry (2)

Nature immunology

#### The adaptor TRAF5 limits the differentiation of inflammatory CD4(+) T cells by antagonizing signaling via the receptor for IL-6.

"12-1261 was used in Conjugation experiments to investigate how the adaptor TRAF5 limits the differentiation of inflammatory CD4(+) T cells."

Authors: Nagashima H, Okuyama Y, Asao A, Kawabe T, Yamaki S, Nakano H, Croft M, Ishii N, So T

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2014

The Journal of biological chemistry

#### Ikaros sets the potential for Th17 lineage gene expression through effects on chromatin state in early T cell development.

"12-1261 was used in Flow cytometry/Cell sorting to investigate the factors that influence the development of Th17 cells, showing that lineage gene expression is set by Ikaros."

Authors: Wong LY, Hatfield JK, Brown MA

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2013

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