

# CD217 (IL-17Ra) Monoclonal Antibody (PAJ-17R), PE, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2a
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	PAJ-17R
Conjugate	PE
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_1582266

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	1 Publication

## Product Specific Information

Description: The monoclonal antibody PAJ-17R recognizes mouse IL-17 receptor A (IL-17RA) also known as CD217. This single transmembrane domain-containing receptor can homo- or heterodimerize with IL-17RC or IL-17RB. IL-17RA binds to IL-17A, IL-17F (cytokines of the Th 17 lineage), or IL-17E (IL-25). Ligand binding to the single subunit of IL-17RA has been shown to induce homo- or heterodimerization of the receptor complex that in turn recruits Act-1 via the SEFIR domains leading to recruitment of TRAF6 and signaling through the NFκappaB and MAPK pathways.

Initial reports suggested ubiquitous expression of IL-17RA based on binding studies with IL-17-Fc and expression of mRNA. Interestingly, despite this, not all cells expressing the receptor respond to IL-17A. In particular, resting T cells do not respond. It is not known if the expression level of IL-17RA protein varies or if some cells express the receptor but are not able to activate downstream signaling events. Recent evidence suggests a more limited expression profile based on IL-17RA knock-out mice which display decreased numbers of neutrophils with impaired function in response to challenge with *K. pneumonia* or *Candida albicans*. This suggests IL-17RA plays a more dominant and critical role in neutrophil development and function. Our studies suggest that expression can be found abundantly on Gr-1<sup>dim</sup> population and many of the Gr-1<sup>bright</sup> bone marrow cells, as well as some F4/80 positive cells. This staining with PAJ-17R is not detected in IL-17RA knock-out mice.

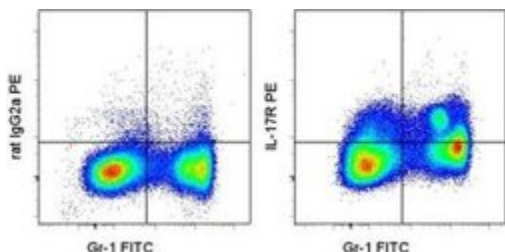
Applications Reported: This PAJ-17R antibody has been reported for use in flow cytometric analysis.

Applications Tested: This PAJ-17R antibody has been tested by flow cytometric analysis of mouse bone marrow cells. This can be used at less than or equal to 0.5 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

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 CD217 (IL-17Ra) Monoclonal Antibody (PAJ-17R), PE, eBioscience™



### CD217 (IL-17Ra) Antibody (12-7182-82) in Flow

Staining of C57BL/6 bone marrow cells with Anti-Mouse Ly-6G (Gr-1) FITC (Product # 11-5931-82) and 0.25 µg of Rat IgG2a kappa Isotype Control PE (Product # 12-4321-80) (left) or 0.25 µg of Anti-Mouse IL-17 Receptor PE (right). Total viable cells were used for analysis.

## 1 Reference

### Flow Cytometry (1)

PloS one

#### Local IL-17 Production Exerts a Protective Role in Murine Experimental Glomerulonephritis.

"Published figure using CD217 (IL-17Ra) monoclonal antibody (Product # 12-7182-82) in Flow Cytometry"

Authors: Hamour S, Gan PY, Pepper R, Florez Barros F, Wang HH, O'Sullivan K, Iwakura Y, Cook T, Pusey C, Holdsworth S, Salama A

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2016

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