10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# Mouse Il17ra Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18687b

## Product Information

| | |
|---|---|
| **Application** | WB, E |
| **Primary Accession** | Q60943 |
| **Other Accession** | NP_032385.1 |
| **Reactivity** | Mouse |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB38645 |
| **Calculated MW** | 97808 |
| **Antigen Region** | 721-747 |

## Additional Information

| | |
|---|---|
| **Gene ID** | 16172 |
| **Other Names** | Interleukin-17 receptor A, IL-17 receptor A, IL-17RA, CD217, Il17ra, Il17r |
| **Target/Specificity** | This Mouse Il17ra antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 721-747 amino acids of mouse Il17ra. |
| **Dilution** | WB~~1:1000 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | Mouse Il17ra Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

| | |
|---|---|
| **Name** | Il17ra |
| **Synonyms** | Il17r |
| **Function** | Receptor for IL17A and IL17F, major effector cytokines of innate and adaptive immune system involved in antimicrobial host defense and maintenance of tissue integrity. Receptor for IL17A (PubMed:17911633, |

PubMed:20554964, PubMed:27923703, PubMed:8777726). Receptor for IL17F (PubMed:17911633, PubMed:20554964). Binds to IL17A with higher affinity than to IL17F (PubMed:17911633). Binds IL17A and IL17F homodimers as part of a heterodimeric complex with IL17RC (By similarity). Also binds heterodimers formed by IL17A and IL17F as part of a heterodimeric complex with IL17RC (By similarity). Cytokine binding triggers homotypic interaction of IL17RA and IL17RC chains with TRAF3IP2 adapter, leading to TRAF6-mediated activation of NF-kappa-B and MAPkinase pathways, ultimately resulting in transcriptional activation of cytokines, chemokines, antimicrobial peptides and matrix metalloproteinases, with potential strong immune inflammation (By similarity). Involved in antimicrobial host defense primarily promoting neutrophil activation and recruitment at infection sites to destroy extracellular bacteria and fungi (PubMed:20364087, PubMed:21993848). In secondary lymphoid organs, contributes to germinal center formation by regulating the chemotactic response of B cells to CXCL12 and CXCL13, enhancing retention of B cells within the germinal centers, B cell somatic hypermutation rate and selection toward plasma cells (PubMed:18157131). Plays a role in the maintenance of the integrity of epithelial barriers during homeostasis and pathogen infection. Stimulates the production of antimicrobial beta-defensins DEFB1, DEFB103A, and DEFB104A by mucosal epithelial cells, limiting the entry of microbes through the epithelial barriers (PubMed:19144317). Involved in antiviral host defense through various mechanisms. Enhances immunity against West Nile virus by promoting T cell cytotoxicity (PubMed:27795421). Contributes to influenza A virus (H1N1) clearance by driving the differentiation of B-1a B cells, providing for production of virus-specific IgM antibodies at first line of host defense (PubMed:26735852). Receptor for IL17C as part of a heterodimeric complex with IL17RE (PubMed:21982598, PubMed:21993848, PubMed:21993849).

**Cellular Location**

Cell membrane; Single-pass type I membrane protein

**Tissue Location**

Widely expressed (PubMed:21993848). Highly expressed in T cells and macrophages (PubMed:19144317). Highly expressed in B-1a B cells and at a lower extent in B-1b and B-2 B cells (at protein level) (PubMed:26735852).

## Background

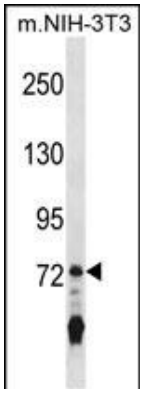
Receptor for IL17A. Binds its ligand with low affinity, suggesting that additional components are involved in IL17A-induced signaling (By similarity).

## References


Onishi, R.M., et al. J. Biol. Chem. 285(43):32751-32759(2010)
Guiton, R., et al. J. Infect. Dis. 202(3):427-435(2010)
Mitsdoerffer, M., et al. Proc. Natl. Acad. Sci. U.S.A. 107(32):14292-14297(2010)
Hill, G.R., et al. Blood 116(5):819-828(2010)
Wu, H.J., et al. Immunity 32(6):815-827(2010)


## Images

Mouse Il17ra Antibody (C-term) (Cat. #AP18687b)
western blot analysis in mouse NIH-3T3 cell line lysates (35ug/lane).This demonstrates the Mouse Il17ra antibody detected the Mouse Il17ra protein (arrow).




Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.