

Product datasheet for **TA337125**

IL17RA Mouse Monoclonal Antibody [Clone ID: 49M4D2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	49M4D2
Applications:	IHC, WB
Recommended Dilution:	Immunohistochemistry: 1:20-1:1000, Western Blot: 1:100-1:2000, Immunohistochemistry-Paraffin: 1:10-1:500
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1, kappa
Clonality:	Monoclonal
Immunogen:	Within the range of amino acids 186-291 of human IL-17RA were used as the immunogen for the antibody.
Formulation:	PBS containing 0.05% BSA, 0.05% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Protein G purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	interleukin 17 receptor A
Database Link:	NP_001276834 Entrez Gene 23765 Human Q96F46



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Background:

IL-17RA (IL-17 receptor A), a type I transmembrane protein with a ubiquitous cell and tissue distribution has no homology with any known cytokine receptor family. This receptor is a member of the IL-17 Receptor family. IL-17RA encodes an unusually large cytoplasmic tail and was shown to activate inflammatory events typical of innate cytokines such as TNF α and IL-1 β including activation of the transcription factor NF-KappaB. IL-17RA is highly expressed on hematopoietic cells, but also at lower levels on osteoblasts, fibroblasts, endothelial cells, and epithelial cells (Chang SH, 2011) (Zhu S, 2010).>The role of the IL-17 family during parasite infections is an emerging area of research with often contradicting results. In this regard, IL-17RA signaling has been shown to be both deleterious and protective during *Toxoplasma gondii* infection. Furthermore, two groups demonstrated that IL-17 plays a protective role in *T. cruzi* infection although the underlying mechanisms remains poorly understood. Indeed, both reports showed significant contradictions that might be related to the different experimental settings but deserves further investigation and discussion, since members of the IL-17 family, IL-17A, IL-17E and IL-17F, are produced during *T. cruzi* infection. Furthermore, it is confirmed that IL-17RA signaling is required for host resistance during the *T. cruzi* infection and focused at the mechanisms underlying IL-17RA-mediated protective effect. IL-17RA antibody has the potential to be a therapeutic option for many diseases (Raychaudhuri SP, 2012) (Tosello Boari J .2012).

Synonyms:

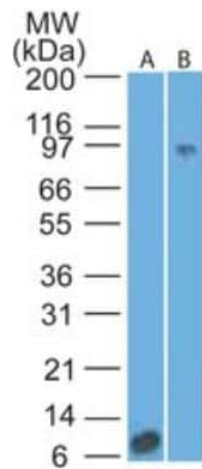
CANDF5; CD217; CDw217; hIL-17R; IL-17RA; IL17R

Protein Families:

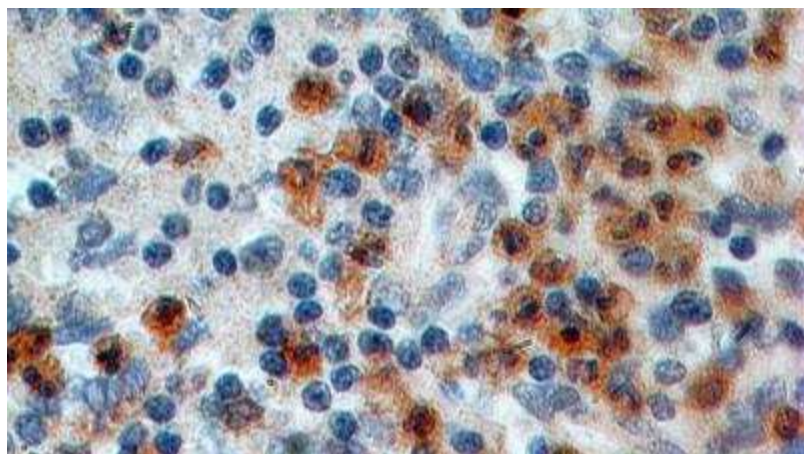
Druggable Genome, Transmembrane

Protein Pathways:

Cytokine-cytokine receptor interaction

Product images:

Western Blot: IL-17 RA/IL-17 R Antibody (49M4D2) TA337125 - Analysis of an IL-17RA recombinant protein fragment and human heart lysate using IL-17RA antibody at 0.5 and 3 ug/ml, respectively. goat anti-mouse Ig HRP secondary antibody and PicoTect ECL substrate solution were used for this test.



Immunohistochemistry-Paraffin: IL-17 RA/IL-17 R Antibody (49M4D2) TA337125 - Formalin-fixed, paraffin-embedded human spleen stained with IL-17RA antibody (1 ug/ml), peroxidase-conjugate and DAB chromogen. TMA was used for this test.