

For Research Use Only

# NeutraKine® IL-17A Monoclonal antibody



Catalog Number: 69021-1-Ig **2 Publications**

## Basic Information

<b>Catalog Number:</b> 69021-1-Ig	<b>GenBank Accession Number:</b> GeneID (NCBI): 3605	<b>Purification Method:</b> Protein A purification
<b>Size:</b>	<b>ENSEMBL Gene ID:</b> ENSG00000112115	<b>CloneNo.:</b> 1F3E3
<b>Source:</b> Mouse	<b>Full Name:</b> interleukin 17A	
<b>Isotype:</b> IgG1		
<b>Immunogen Catalog Number:</b> HZ-1113		

## Applications

**Tested Applications:**  
Neutralization, ELISA

**Cited Applications:**  
Cell treatment, Neutralization

**Species Specificity:**  
Human

**Cited Species:**  
human

## Background Information

IL17A, also named as IL-17, is a proinflammatory cytokine. IL-17, synthesized only by memory T cells and natural killer cells, has pleiotropic effects, mainly in the recruitment and activation of neutrophils. This cytokine regulates the activities of NF-kappaB and mitogen-activated protein kinases. This cytokine can stimulate the expression of IL6 and cyclooxygenase-2 (PTGS2/COX-2), as well as enhance the production of nitric oxide (NO). High levels of this cytokine are associated with several chronic inflammatory diseases including rheumatoid arthritis, psoriasis and multiple sclerosis. The IL-17 receptor is a type I transmembrane protein, that is widely expressed on epithelial cells, fibroblasts, B and T cells, and monocytic cells. In psoriatic skin lesions, both Th17 cells and their downstream effector molecules, e.g. IL-17 and IL-22, are highly increased.

This antibody can be used to neutralize the bioactivity of IL-17A.

## Notable Publications

Author	Pubmed ID	Journal	Application
Danyang Li	36267325	Int J Chron Obstruct Pulmon Dis	Neutralization
Kevin M Motz	37159282	JCI Insight	Cell treatment

## Storage

**Storage:**  
Lyophilized antibodies are stable for 1 year from the date of receipt if stored between (-20°C) and (-80°C). Upon reconstitution we recommend that the solution can be stored at(4°C) for short term or at(-20°C) to (-80°C) for long term. Repeated freeze thaw cycles should be avoided with reconstituted products.

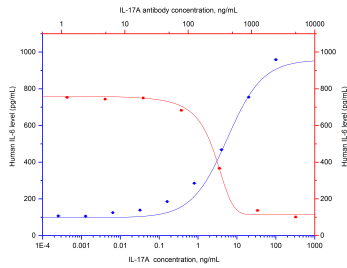
**Storage Buffer:**  
Sterile PBS.

Aliquoting is unnecessary for -20°C storage

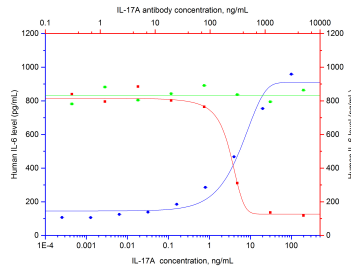
For technical support and original validation data for this product please contact:  
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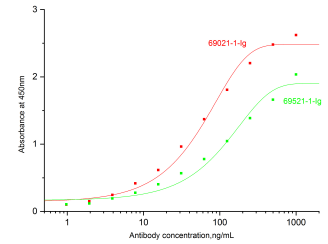
## Selected Validation Data



Recombinant human IL-17A (Cat.NO. HZ-1113) stimulates HT-1080 cells (human fibroblast cell line) produce IL-6 in a dose dependent manner (blue curve, refer to bottom X-Left Y axis). The activity of human IL-17A (40ng/mL HZ-1113) is neutralized by mouse anti-human IL-17A monoclonal antibody 69021-1-Ig (red curve, refer to top X-right Y axis). The ND50 is typically 200-600ng/mL.



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Indirect ELISA was carried out by coating recombinant Human IL-17A (Cat.NO. HZ-1113) at 70 ng/well followed by blocking and adding serial diluted IL-17A antibody 69021-1-Ig and 69521-1-Ig respectively. Signal was developed with TMB and stopped by H2SO4. Signal strength was measured by absorbance at 450 nm.