

For Research Use Only

# IL-17A Monoclonal antibody

Catalog Number: 66148-1-Ig **16 Publications**



## Basic Information

<b>Catalog Number:</b> 66148-1-Ig	<b>GenBank Accession Number:</b> BC067505	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1000 µg/ml by Nanodrop and 507 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 3605	<b>CloneNo.:</b> 1B3D5
<b>Source:</b> Mouse	<b>ENSEMBL Gene ID:</b> ENSG00000112115	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:500-1:2000 IF 1:200-1:800
<b>Isotype:</b> IgG1	<b>UNIPROT ID:</b> Q16552	
<b>Immunogen Catalog Number:</b> AG3733	<b>Full Name:</b> interleukin 17A	
	<b>Calculated MW:</b> 155 aa, 18 kDa	
	<b>Observed MW:</b> 18 kDa	

## Applications

**Tested Applications:**  
FC, IF, IHC, WB, ELISA

**Cited Applications:**  
WB, IHC, IF, FC

**Species Specificity:**  
human, mouse

**Cited Species:**  
human, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB:** A549 cells, Jurkat cells, Raji cells, U-937 cells, MOLT-4 cells, Ramos cells, Daudi cells, HL-60 cells, RAW 264.7 cells

**IHC:** human skin cancer tissue, human colon tissue, human colon cancer tissue

**IF:** human tonsillitis tissue,

## 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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Danyang Li	36267325	Int J Chron Obstruct Pulmon Dis	WB
Komal Ramani	36193675	Elife	WB
Jian Wang	31768762	In Vitro Cell Dev Biol Anim	WB

## Storage

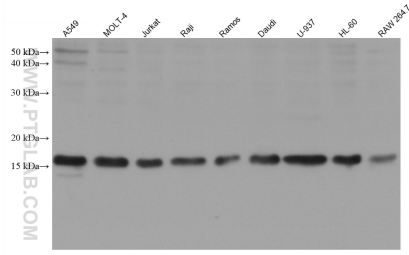
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

**\*\*\* 20ul sizes contain 0.1% BSA**

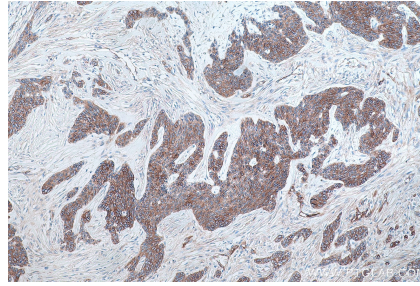
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

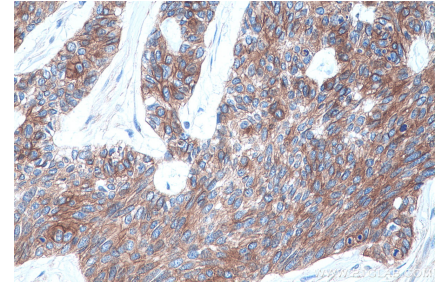
## Selected Validation Data



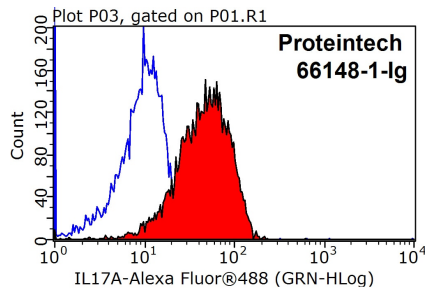
Various lysates were subjected to SDS PAGE followed by western blot with 66148-1-Ig (IL-17A antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



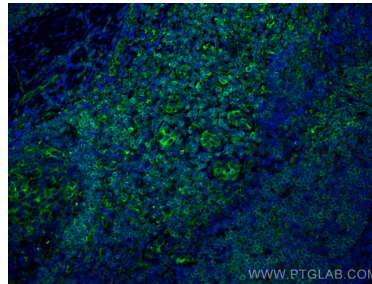
Immunohistochemical analysis of paraffin-embedded human skin cancer tissue slide using 66148-1-Ig (IL-17A antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human skin cancer tissue slide using 66148-1-Ig (IL-17A antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10<sup>6</sup> Jurkat cells were stained with 0.2ug IL-17A antibody (66148-1-Ig, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L) with dilution 1:1000.



Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using IL-17A antibody (66148-1-Ig, Clone: 1B3D5) at dilution of 1:400 and Coralite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).