

**IL-10 Polyclonal Antibody**  
Catalog # AP73321**Specification****IL-10 Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P22301</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal

**IL-10 Polyclonal Antibody - Additional Information****Gene ID** 3586**Other Names**

IL10; Interleukin-10; IL-10; Cytokine synthesis inhibitory factor; CSIF

**Dilution**

WB~~Western Blot: 1/500 - 1/2000. IHC-p: 1:100-300 ELISA: 1/20000. Not yet tested in other applications.

**Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**

-20°C

**IL-10 Polyclonal Antibody - Protein Information****Name** IL10**Function**

Major immune regulatory cytokine that acts on many cells of the immune system where it has profound anti-inflammatory functions, limiting excessive tissue disruption caused by inflammation. Mechanistically, IL10 binds to its heterotetrameric receptor comprising IL10RA and IL10RB leading to JAK1 and STAT2-mediated phosphorylation of STAT3 (PubMed: [16982608](http://www.uniprot.org/citations/16982608)). In turn, STAT3 translocates to the nucleus where it drives expression of anti-inflammatory mediators (PubMed: [18025162](http://www.uniprot.org/citations/18025162)). Targets antigen-presenting cells (APCs) such as macrophages and monocytes and inhibits their release of pro-inflammatory cytokines including granulocyte-macrophage colony-stimulating factor /GM-CSF, granulocyte colony-stimulating factor/G-CSF, IL-1 alpha, IL-1 beta, IL-6, IL-8 and TNF-alpha (PubMed: [11564774](http://www.uniprot.org/citations/11564774), PubMed: [1940799](http://www.uniprot.org/citations/1940799), PubMed: [7512027](http://www.uniprot.org/citations/7512027)). Interferes also with antigen presentation by reducing the expression of MHC-class II and co-stimulatory molecules, thereby inhibiting their ability to induce

T cell activation (PubMed:<a href="http://www.uniprot.org/citations/8144879" target="\_blank">8144879</a>). In addition, controls the inflammatory response of macrophages by reprogramming essential metabolic pathways including mTOR signaling (By similarity).

**Cellular Location**  
Secreted.

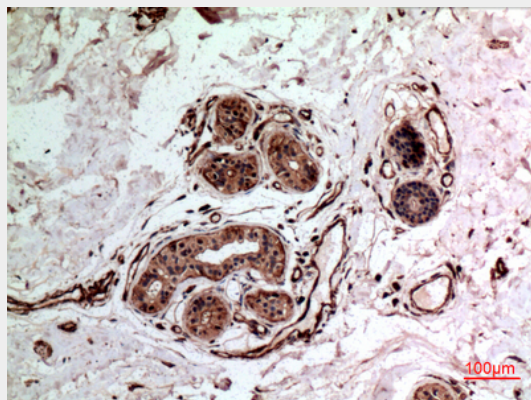
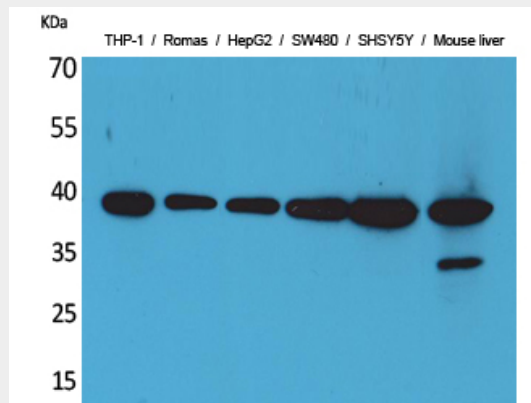
**Tissue Location**  
Produced by a variety of cell lines, including T- cells, macrophages, mast cells and other cell types

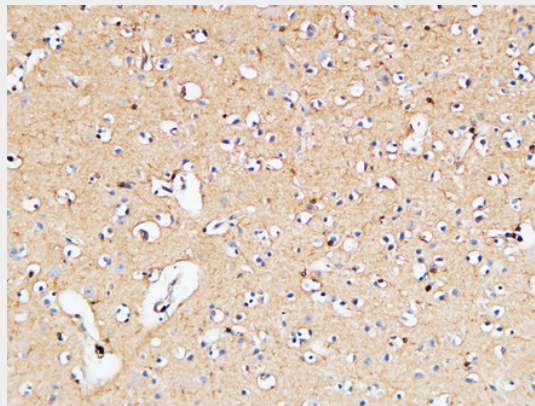
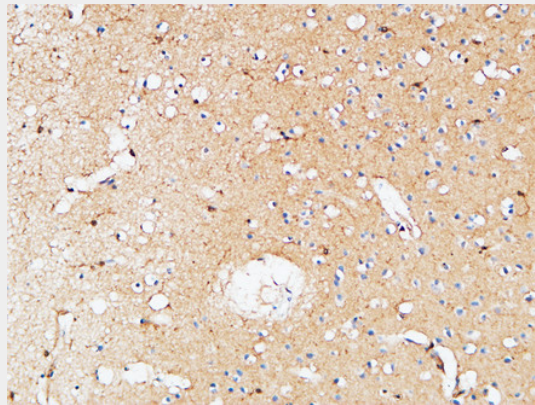
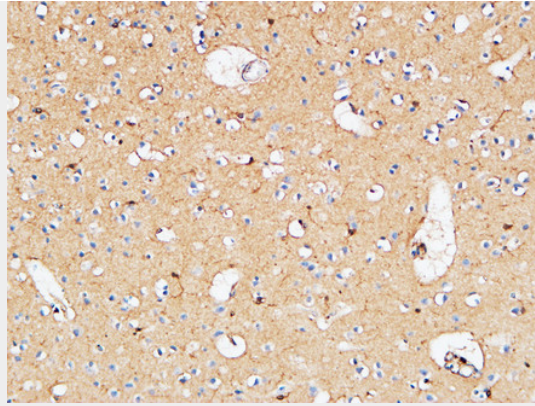
### IL-10 Polyclonal Antibody - Protocols

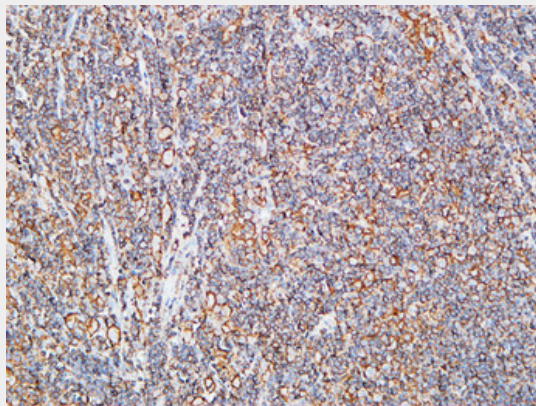
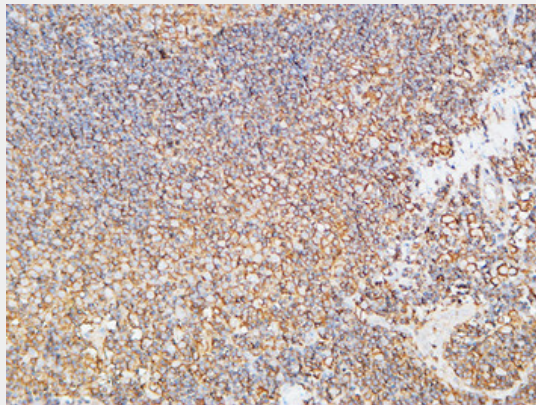
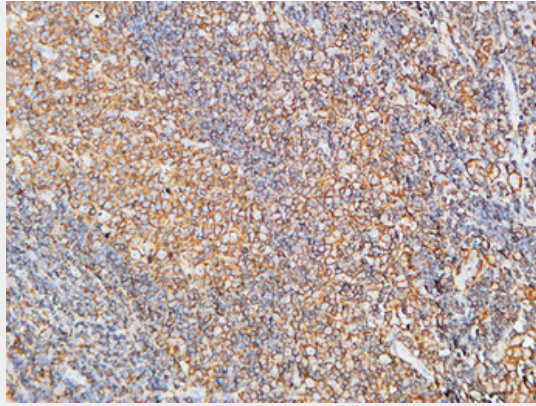
Provided below are standard protocols that you may find useful for product applications.

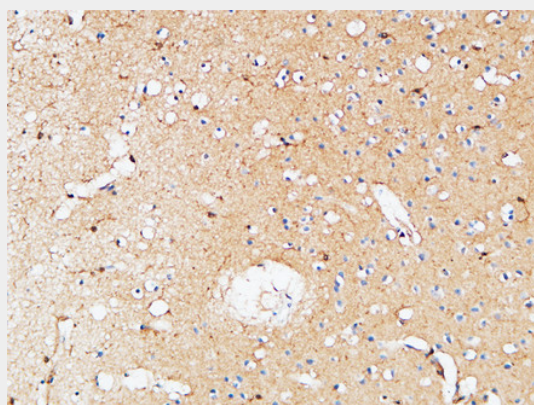
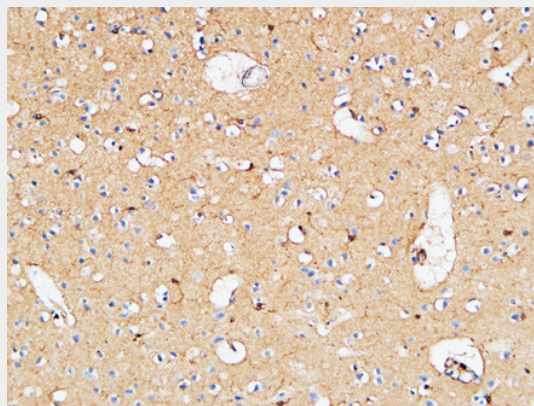
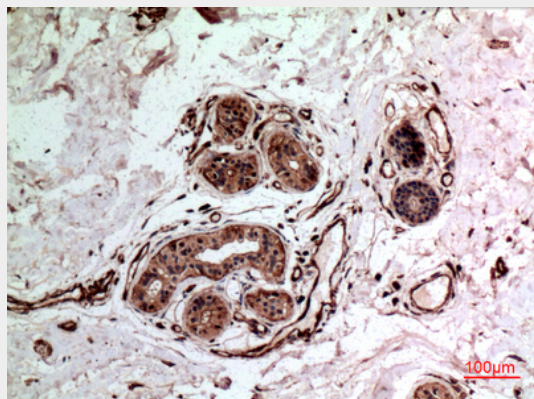
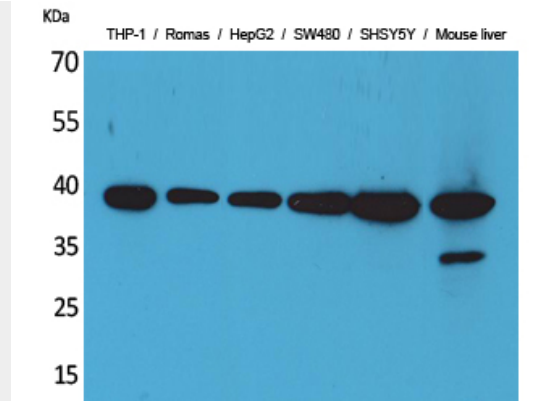
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

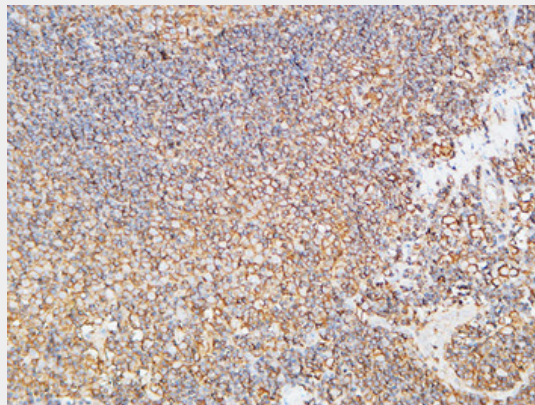
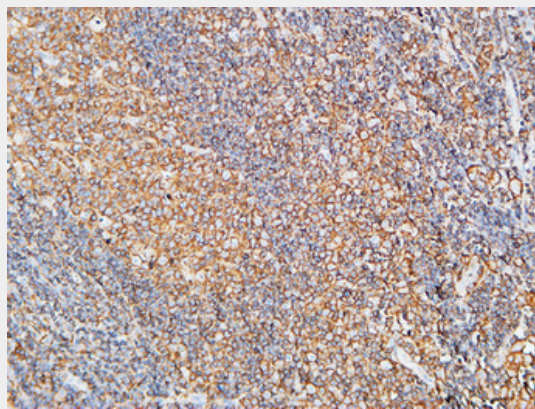
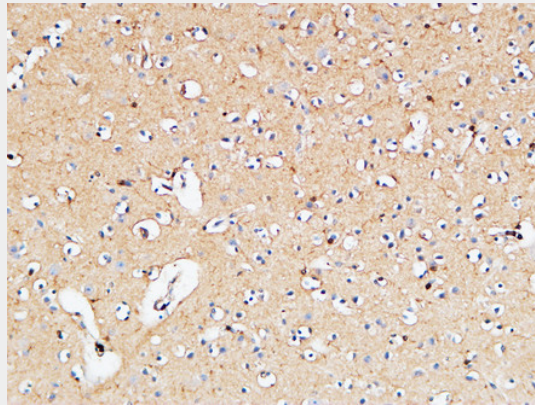
### IL-10 Polyclonal Antibody - Images

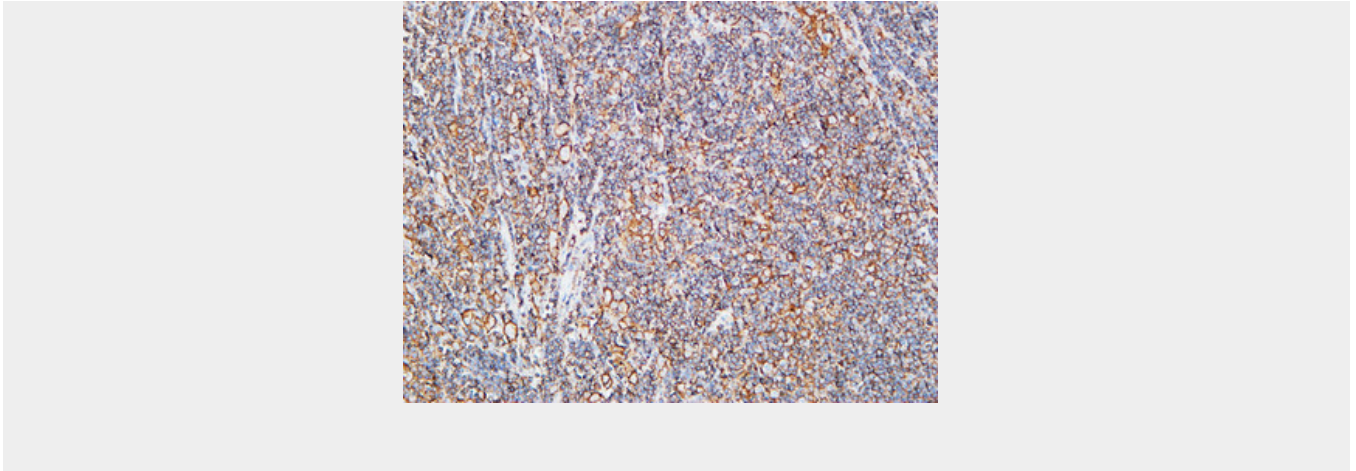












### **IL-10 Polyclonal Antibody - Background**

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