

**IL2 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP6912c****Specification**

---

**IL2 Antibody (Center) - Product Information**

Application	IHC-P, WB,E
Primary Accession	<a href="#">P60568</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	17628
Antigen Region	50-77

**IL2 Antibody (Center) - Additional Information****Gene ID** 3558**Other Names**

Interleukin-2, IL-2, T-cell growth factor, TCGF, Aldesleukin, IL2

**Target/Specificity**

This IL2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 50-77 amino acids from the Central region of human IL2.

**Dilution**

IHC-P~~1:50~100

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**

IL2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**IL2 Antibody (Center) - Protein Information****Name** IL2**Function** Cytokine produced by activated CD4-positive helper T-cells and to a lesser extend

activated CD8-positive T-cells and natural killer (NK) cells that plays pivotal roles in the immune response and tolerance (PubMed:[6438535](#)). Binds to a receptor complex composed of either the high-affinity trimeric IL-2R (IL2RA/CD25, IL2RB/CD122 and IL2RG/CD132) or the low-affinity dimeric IL-2R (IL2RB and IL2RG) (PubMed:[16293754](#), PubMed:[16477002](#)). Interaction with the receptor leads to oligomerization and conformation changes in the IL-2R subunits resulting in downstream signaling starting with phosphorylation of JAK1 and JAK3 (PubMed:[7973659](#)). In turn, JAK1 and JAK3 phosphorylate the receptor to form a docking site leading to the phosphorylation of several substrates including STAT5 (PubMed:[8580378](#)). This process leads to activation of several pathways including STAT, phosphoinositide-3-kinase/PI3K and mitogen-activated protein kinase/MAPK pathways (PubMed:[25142963](#)). Functions as a T-cell growth factor and can increase NK-cell cytolytic activity as well (PubMed:[6608729](#)). Promotes strong proliferation of activated B-cells and subsequently immunoglobulin production (PubMed:[6438535](#)). Plays a pivotal role in regulating the adaptive immune system by controlling the survival and proliferation of regulatory T-cells, which are required for the maintenance of immune tolerance. Moreover, participates in the differentiation and homeostasis of effector T-cell subsets, including Th1, Th2, Th17 as well as memory CD8-positive T-cells.

#### Cellular Location

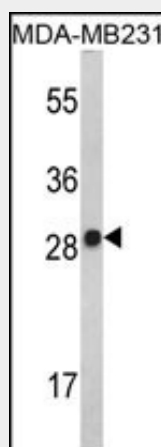
Secreted.

#### IL2 Antibody (Center) - Protocols

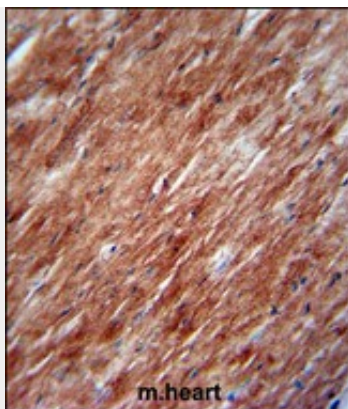
Provided below are standard protocols that you may find useful for product applications.

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

#### IL2 Antibody (Center) - Images



Western blot analysis of IL2 Antibody (Center) (Cat. #AP6912c) in MDA-MB231 cell line lysates (35ug/lane). IL2 (arrow) was detected using the purified Pab.



IL2 Antibody (Center) (Cat. #AP6912c) immunohistochemistry analysis in formalin fixed and paraffin embedded mouse heart tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the IL2 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

#### **IL2 Antibody (Center) - Background**

IL2 is a secreted cytokine that is important for the proliferation of T and B lymphocytes. The receptor of this cytokine is a heterotrimeric protein complex whose gamma chain is also shared by interleukin 4 (IL4) and interleukin 7 (IL7).

#### **IL2 Antibody (Center) - References**

Reyes-Gibby, C.C., et.al., Cancer Epidemiol. Biomarkers Prev. 18 (10), 2636-2642 (2009)