

**IL12A / p35 Antibody**  
**Goat Polyclonal Antibody**  
**Catalog # ALS14411**

**Specification**

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**IL12A / p35 Antibody - Product Information**

Application	IHC
Primary Accession	<a href="#">P29459</a>
Reactivity	Human, Monkey, Dog
Host	Goat
Clonality	Polyclonal
Calculated MW	25kDa KDa

**IL12A / p35 Antibody - Additional Information**

**Gene ID** 3592

**Other Names**

Interleukin-12 subunit alpha, IL-12A, Cytotoxic lymphocyte maturation factor 35 kDa subunit, CLMF p35, IL-12 subunit p35, NK cell stimulatory factor chain 1, NKSF1, IL12A, NKSF1

**Target/Specificity**

Human IL12A / IL-12A.

**Reconstitution & Storage**

Store at -20°C. Minimize freezing and thawing.

**Precautions**

IL12A / p35 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**IL12A / p35 Antibody - Protein Information**

**Name** IL12A

**Synonyms** NKSF1

**Function**

Heterodimerizes with IL12B to form the IL-12 cytokine or with EBI3/IL27B to form the IL-35 cytokine (PubMed: [8605935](http://www.uniprot.org/citations/8605935), PubMed: [8943050](http://www.uniprot.org/citations/8943050)). IL-12 is primarily produced by professional antigen-presenting cells (APCs) such as B-cells and dendritic cells (DCs) as well as macrophages and granulocytes and regulates T-cell and natural killer-cell responses, induces the production of interferon-gamma (IFN-gamma), favors the differentiation of T-helper 1 (Th1) cells and is an important link between innate resistance and adaptive immunity (PubMed: [1673147](http://www.uniprot.org/citations/1673147), PubMed: [1674604](http://www.uniprot.org/citations/1674604), PubMed: [1674604](http://www.uniprot.org/citations/1674604), PubMed: [1674604](http://www.uniprot.org/citations/1674604)).

[8605935](http://www.uniprot.org/citations/8605935)). Mechanistically, exerts its biological effects through a receptor composed of IL12R1 and IL12R2 subunits (PubMed: [8943050](http://www.uniprot.org/citations/8943050)). Binding to the receptor results in the rapid tyrosine phosphorylation of a number of cellular substrates including the JAK family kinases TYK2 and JAK2 (PubMed: [7528775](http://www.uniprot.org/citations/7528775)). In turn, recruited STAT4 gets phosphorylated and translocates to the nucleus where it regulates cytokine/growth factor responsive genes (PubMed: [7638186](http://www.uniprot.org/citations/7638186)). As part of IL-35, plays essential roles in maintaining the immune homeostasis of the liver microenvironment and functions also as an immune-suppressive cytokine (By similarity). Mediates biological events through unconventional receptors composed of IL12RB2 and gp130/IL6ST heterodimers or homodimers (PubMed: [22306691](http://www.uniprot.org/citations/22306691)). Signaling requires the transcription factors STAT1 and STAT4, which form a unique heterodimer that binds to distinct DNA sites (PubMed: [22306691](http://www.uniprot.org/citations/22306691)).

### Cellular Location

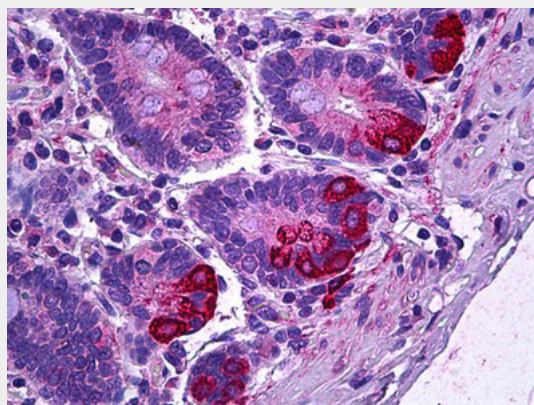
Secreted

### IL12A / p35 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](#)

### IL12A / p35 Antibody - Images



Anti-IL-12A antibody IHC of human intestine, Paneth cells.

### IL12A / p35 Antibody - Background

Cytokine that can act as a growth factor for activated T and NK cells, enhance the lytic activity of NK/lymphokine- activated Killer cells, and stimulate the production of IFN-gamma by resting PBMC.

**IL12A / p35 Antibody - References**

- Wolf S.F.,et al.J. Immunol. 146:3074-3081(1991).  
Gubler U.,et al.Proc. Natl. Acad. Sci. U.S.A. 88:4143-4147(1991).  
Muzny D.M.,et al.Nature 440:1194-1198(2006).  
Stern A.S.,et al.Proc. Natl. Acad. Sci. U.S.A. 87:6808-6812(1990).  
Merberg D.M.,et al.Immunol. Today 13:77-78(1992).