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IL12A / p35 Antibody
Goat Polyclonal Antibody
Catalog # ALS14411

Specification

IL12A / p35 Antibody - Product Information

Application	**IHC**
Primary Accession	P29459
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, PubMed: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, PubMed:1674604, PubMed:<a

href="http://www.uniprot.org/citations/8605935" target="_blank">8605935). Mechanistically, exerts its biological effects through a receptor composed of IL12R1 and IL12R2 subunits (PubMed: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). In turn, recruited STAT4 gets phosphorylated and translocates to the nucleus where it regulates cytokine/growth factor responsive genes (PubMed: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). Signaling requires the transcription factors STAT1 and STAT4, which form a unique heterodimer that binds to distinct DNA sites (PubMed:22306691).

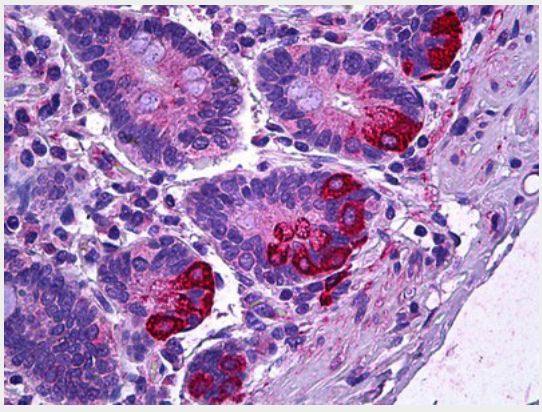
Cellular Location
Secreted

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 Cytomety
- 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.

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IL12A / p35 Antibody - References

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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).