

# Anti-IL12A / p35 Antibody (C-Terminus)

Rabbit Anti Human Polyclonal Antibody  
Catalog # ALS17301

## Product Information

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<b>Application</b>	WB, IHC-P, E
<b>Primary Accession</b>	<a href="#">P29459</a>
<b>Predicted</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG
<b>Calculated MW</b>	24874
<b>Concentration (mg/ml)</b>	1 mg/ml

## Additional Information

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<b>Gene ID</b>	3592
<b>Alias Symbol</b>	IL12A
<b>Other Names</b>	IL12A, CLMF p35, IL-12, subunit p35, IL-12A, Interleukin-12 alpha chain, NFSK, p35, Interleukin-12 subunit alpha, NKSF1, CLMF, IL-12 subunit p35, IL35 subunit, Interleukin 12, p35
<b>Target/Specificity</b>	IL-12A antibody is human specific. IL-12A antibody will not cross-react with IL-12B.
<b>Reconstitution &amp; Storage</b>	PBS, 0.02% sodium azide. Store at 4°C for three months and -20°C, stable for up to one year. Avoid repeated freeze thaw cycles.
<b>Precautions</b>	Anti-IL12A / p35 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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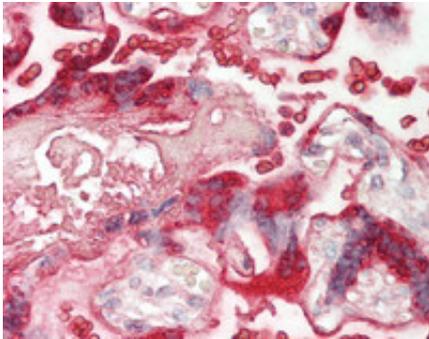
<b>Name</b>	IL12A
<b>Synonyms</b>	NKSF1
<b>Function</b>	Heterodimerizes with IL12B to form the IL-12 cytokine or with EBI3/IL27B to form the IL-35 cytokine (PubMed: <a href="#">8605935</a> , PubMed: <a href="#">8943050</a> ). IL-12 is primarily produced by professional antigen-presenting cells (APCs) 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: <a href="#">1673147</a> , PubMed: <a href="#">1674604</a> , PubMed: <a href="#">8605935</a> ).

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 also functions 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

## Images

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Human Placenta: Formalin-Fixed, Paraffin-Embedded (FFPE)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.