

# IL-32 Antibody

Catalog # ASC10399

## Product Information

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<b>Application</b>	WB, IF, E, IHC-P
<b>Primary Accession</b>	<a href="#">P24001</a>
<b>Other Accession</b>	<a href="#">AAH09401</a> , <a href="#">14424787</a>
<b>Reactivity</b>	Human, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG
<b>Calculated MW</b>	26676
<b>Concentration (mg/ml)</b>	1 mg/mL
<b>Conjugate</b>	Unconjugated
<b>Application Notes</b>	IL-32 antibody can be used for the detection of IL-32 by Western blot at 5 - 10 $\mu$ g/mL. Antibody can also be used for immunohistochemistry starting at 10 $\mu$ g/mL. For immunofluorescence start at 20 $\mu$ g/mL.

## Additional Information

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<b>Gene ID</b>	9235
<b>Other Names</b>	IL-32 Antibody: NK4, TAIF, TAIFa, TAIFb, TAIFc, TAIFd, IL-32beta, IL-32alpha, IL-32delta, IL-32gamma, NK4, Interleukin-32, Natural killer cells protein 4, IL-32, interleukin 32
<b>Target/Specificity</b>	IL32; This antibody detects all isoforms of IL-32.
<b>Reconstitution &amp; Storage</b>	IL-32 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
<b>Precautions</b>	IL-32 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	IL32
<b>Synonyms</b>	NK4, TAIF
<b>Function</b>	Cytokine that may play a role in innate and adaptive immune responses. It induces various cytokines such as TNFA/TNF-alpha and IL8. It activates typical cytokine signal pathways of NF-kappa-B and p38 MAPK.
<b>Cellular Location</b>	Secreted.

**Tissue Location**

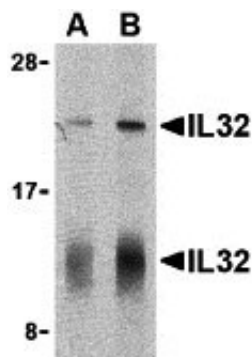
Selectively expressed in lymphocytes. Expression is more prominent in immune cells than in non-immune cells

**Background**

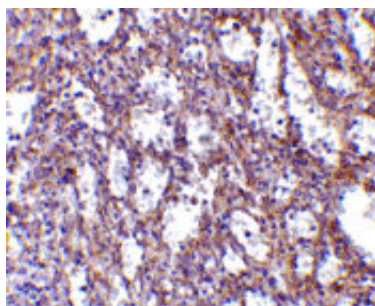
**IL-32 Antibody:** Interleukin-32 (IL-32) was initially identified as a transcript (NK4) that is selectively expressed in lymphocytes and NK cells and whose expression is increased following activation by IL-2. It was later re-isolated from an IL-18-treated lung carcinoma cell line and re-named IL-32. IL-32 is unusual in that it does not share sequence homology with known cytokine families and is highly expressed in immune tissues, existing in at least four differentially spliced isoforms. Because treatment of human monocytic and mouse macrophage cells with IL-32 induces several proinflammatory cytokines such as TNF- $\alpha$ , IL-8 and MIP-2, and because it is also induced in human peripheral lymphocyte cells after mitogen stimulation and in epithelial cells by IFN $\gamma$ , it has been suggested that IL-32 may play a role in autoimmune and inflammatory diseases such as rheumatoid arthritis.

**References**

Dahl CA, Schall RP, He HL, et al. Identification of a novel gene expressed in activated natural killer cells and T cells. *J. Immunol.* 1992; 148:597-603.  
Kim S-H, Han S-Y, Azam T, et al. Interleukin-32: a cytokine and inducer of TNF- $\alpha$ . *Immunity* 2005; 22:131-42.  
Cagnard N, Letourneur F, Essabbani A, et al. Interleukin-32, CCL2, PF4F1 and GFD10 are the only cytokine/chemokine genes differentially expressed by in vitro cultured rheumatoid and osteoarthritis fibroblast-like synoviocytes. *Eur. Cyto. Network* 2005; 16:289-92.

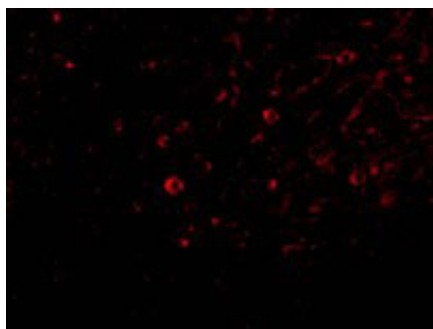
**Images**

Western blot analysis of IL-32 in human spleen lysate with IL-32 antibody at (A) 5 and (B) 10  $\mu\text{g/mL}$  shows two isoforms of IL-32.



Immunohistochemistry of IL-32 in human spleen tissue with IL-32 antibody at 10  $\mu\text{g/mL}$ .

Immunofluorescence of IL-32 in Human Spleen cells with IL-32 antibody at 20  $\mu\text{g/mL}$ .



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