

# IL-33 Polyclonal Antibody

Catalog # AP73670

## Product Information

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<b>Application</b>	WB, IHC-P, IF, ICC, E
<b>Primary Accession</b>	<a href="#">O95760</a>
<b>Reactivity</b>	Human, Rat, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	30759

## Additional Information

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<b>Gene ID</b>	90865
<b>Other Names</b>	IL33; C9orf26; IL1F11; NFHEV; Interleukin-33; IL-33; Interleukin-1 family member 11; IL-1F11; Nuclear factor from high endothelial venules; NF-HEV
<b>Dilution</b>	WB~~Western Blot: 1/500 - 1/2000. IHC-p: 1/100-1/300. ELISA: 1/20000. Not yet tested in other applications. IHC-P~~Western Blot: 1/500 - 1/2000. IHC-p: 1/100-1/300. ELISA: 1/20000. Not yet tested in other applications. IF~~1:50~200 ICC~~N/A E~~N/A
<b>Format</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
<b>Storage Conditions</b>	-20°C

## Protein Information

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<b>Name</b>	IL33 ( <a href="#">HGNC:16028</a> )
<b>Synonyms</b>	C9orf26, IL1F11, NFHEV
<b>Function</b>	Cytokine that binds to and signals through the IL1RL1/ST2 receptor which in turn activates NF-kappa-B and MAPK signaling pathways in target cells (PubMed: <a href="#">16286016</a> , PubMed: <a href="#">19841166</a> ). Involved in the maturation of Th2 cells inducing the secretion of T-helper type 2- associated cytokines (PubMed: <a href="#">17853410</a> , PubMed: <a href="#">18836528</a> ). Also involved in activation of mast cells, basophils, eosinophils and natural killer cells (PubMed: <a href="#">17853410</a> , PubMed: <a href="#">18836528</a> ). Acts as an enhancer of polarization of alternatively activated macrophages (PubMed: <a href="#">19841166</a> ). Acts as a chemoattractant for Th2 cells, and may function as an 'alarmin', that amplifies immune responses during tissue injury (PubMed: <a href="#">17853410</a> , PubMed: <a href="#">18836528</a> ). Induces rapid UCP2-dependent mitochondrial rewiring that attenuates the generation of reactive oxygen species and preserves the integrity of Krebs cycle required for persistent production of itaconate and subsequent GATA3-dependent

differentiation of inflammation-resolving alternatively activated macrophages (By similarity).

### Cellular Location

Nucleus. Chromosome. Cytoplasm Cytoplasmic vesicle, secretory vesicle Secreted Note=Secreted and released in the extracellular milieu by passing through the gasdermin-D (GSDMD) pore following cleavage by CELA1 (PubMed:35794369). Associates with heterochromatin and mitotic chromosomes (PubMed:17185418). The secretion is dependent on protein unfolding and facilitated by the cargo receptor TMED10; it results in protein translocation from the cytoplasm into the ERGIC (endoplasmic reticulum-Golgi intermediate compartment) followed by vesicle entry and secretion (PubMed:32272059).

### Tissue Location

Expressed at high level in high endothelial venules found in tonsils, Peyer patches and mesenteric lymph nodes. Almost undetectable in placenta.

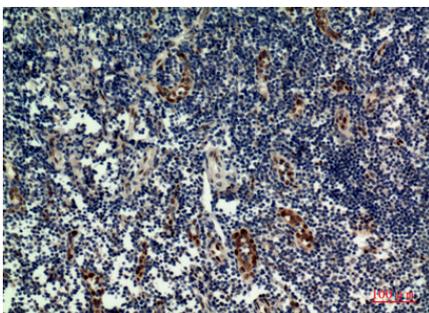
## Background

Cytokine that binds to and signals through the IL1RL1/ST2 receptor which in turn activates NF-kappa-B and MAPK signaling pathways in target cells (PubMed:[16286016](#)). Involved in the maturation of Th2 cells inducing the secretion of T-helper type 2-associated cytokines. Also involved in activation of mast cells, basophils, eosinophils and natural killer cells. Acts as a chemoattractant for Th2 cells, and may function as an "alarmin", that amplifies immune responses during tissue injury (PubMed:[17853410](#), PubMed:[18836528](#)).

## Images

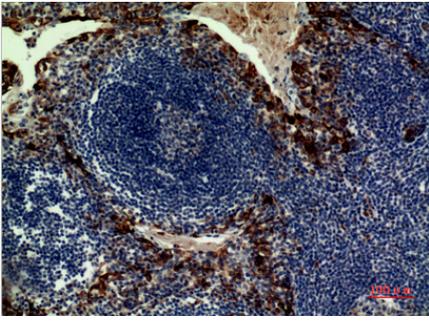


Western Blot analysis of HeLa cells using IL-33 Polyclonal Antibody.. Secondary antibody was diluted at 1:20000



Immunohistochemical analysis of paraffin-embedded human-tonsilla, antibody was diluted at 1:100

Immunohistochemical analysis of paraffin-embedded human-tonsilla, antibody was diluted at 1:100



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