

## Rabbit IL33 Polyclonal Antibody | anti-IL33 antibody

IL33 Antibody

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                                                       |
|-----------|--------|-------------------|------------------------------------------------------------------------------------|
| AAA327456 | Rabbit | Human, Mouse, Rat | ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot |

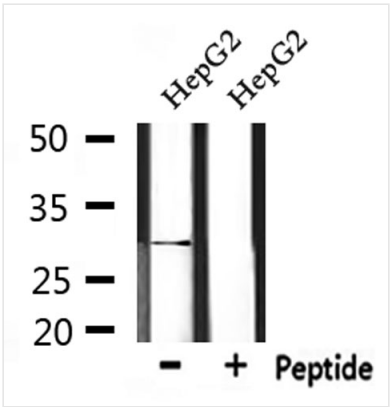
### PRODUCT SYNONYMS

IL33; Polyclonal Antibody; IL33 Antibody; C9orf26; CHROMOSOME 9 OPEN READING FRAME 26; DKFZp586H0523; DVS27; DVS27 related protein; IL 1F11; IL 33; IL-1F11; IL-33; IL1F11; IL33\_HUMAN; Interleukin 1 family member 11; Interleukin 33; INTERLEUKIN 33 NFHEV; Interleukin 33 precursor; Interleukin-1 family member 11; Interleukin-33 (109-270); Interleukin33; NF HEV; NF-HEV; NFEHEV; NFHEV; Nuclear factor for high endothelial venules; Nuclear factor from high endothelial venules; OTTHUMP00000021041; RP11 575C20.2; anti-IL33 antibody

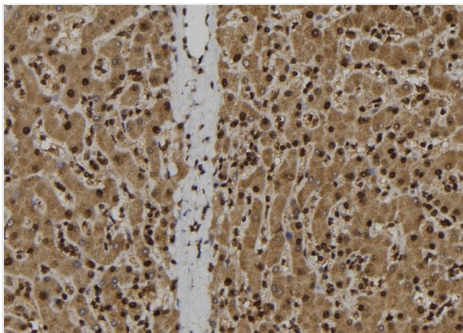
### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                   |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                            |
| Reactivity                                     | Human, Mouse, Rat                                                                                                                                 |
| Clonality                                      | Polyclonal                                                                                                                                        |
| Isotype                                        | IgG                                                                                                                                               |
| Specificity                                    | IL33 antibody detects endogenous levels of total IL33                                                                                             |
| Purity/Purification                            | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.                                                     |
| Form/Format                                    | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                                     |
| Concentration                                  | 1mg/ml (varies by lot)                                                                                                                            |
| Sequence Length                                | 228                                                                                                                                               |
| Applicable Applications for anti-IL33 antibody | ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)                                          |
| Immunogen                                      | A synthesized peptide derived from human IL33                                                                                                     |
| Subcellular Location                           | Nucleus. Chromosome. Cytoplasmic Vesicle, Secretory Vesicle. Secreted. Associates with heterochromatin and mitotic chromosomes (PubMed:17185418). |
| Tissue Specificity                             | Expressed at high level in high endothelial venules found in tonsils, Peyer patches and mesenteric lymph nodes. Almost undetectable in placenta.  |
| Conjugation                                    | Unconjugated                                                                                                                                      |
| Preparation and Storage                        | Store at -20 degree C. Stable for 12 months from date of receipt.                                                                                 |

IMAGES



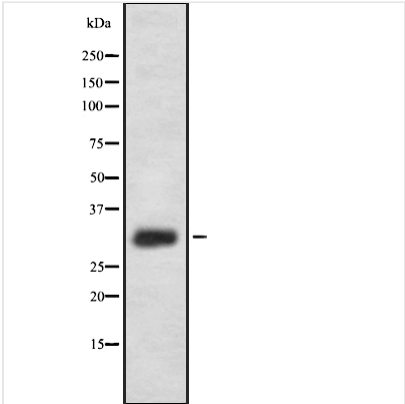
**WB (Western Blot)**  
Western blot analysis of extracts from HepG2, using IL33 Antibody.



**IHC (Immunohistochemisry)**  
AAA327456 at 1/100 staining Human liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



**IF (Immunofluorescence)**  
AAA327456 staining HepG2 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



**WB (Western Blot)**  
Western blot analysis IL33 using HeLa whole cell lysates

ADDITIONAL INFORMATION

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-IL33 antibody</b> | <p>Function: 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).</p> <p>Subunit Structure: Forms a 1:1:1 heterotrimeric complex with its primary high-affinity receptor IL1RL1 and the coreceptor IL1RAP.</p> <p>Post-translational Modifications: The full-length protein can be released from cells and is able to signal via the IL1RL1/ST2 receptor. However, proteolytic processing by CSTG/cathepsin G and ELANE/neutrophil elastase produces C-terminal peptides that are more active than the unprocessed full length protein. May also be proteolytically processed by calpains (PubMed:19596270). Proteolytic cleavage mediated by apoptotic caspases including CASP3 and CASP7 results in IL33 inactivation (PubMed:19559631). In vitro proteolytic cleavage by CASP1 was reported (PubMed:16286016) but could not be confirmed in vivo (PubMed:19465481) suggesting that IL33 is probably not a direct substrate for that caspase.</p> <p>Similarity: The homeodomain-like HTH domain mediates nuclear localization and heterochromatin association. Belongs to the IL-1 family. Highly divergent.</p> |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                  |                |
|------------------|----------------|
| NCBI GI #        | 313851030      |
| NCBI GeneID      | 90865          |
| NCBI Accession # | NP_001186569.1 |

|                                  |                                                                                                                                                                              |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GenBank Nucleotide #        | <a href="#">NM_001199640.1</a>                                                                                                                                               |
| UniProt Accession #              | <a href="#">O95760</a> ; <a href="#">Q2YEJ5</a> ; <a href="#">B2R8L1</a> ; <a href="#">B4DJ35</a> ; <a href="#">B4E1Q9</a> ; <a href="#">D3DRI5</a> ; <a href="#">E7EAX4</a> |
| Molecular Weight                 | Observed: 31 kDa<br>Predicted: 31 kDa                                                                                                                                        |
| NCBI Official Full Name          | interleukin-33 isoform b                                                                                                                                                     |
| NCBI Official Synonym Full Names | interleukin 33                                                                                                                                                               |
| NCBI Official Symbol             | IL33                                                                                                                                                                         |
| NCBI Official Synonym Symbols    | DVS27; IL1F11; NF-HEV; NFEHEV; C9orf26                                                                                                                                       |
| NCBI Protein Information         | interleukin-33                                                                                                                                                               |
| UniProt Protein Name             | Interleukin-33                                                                                                                                                               |
| UniProt Gene Name                | <b>IL33</b>                                                                                                                                                                  |
| UniProt Synonym Gene Names       | C9orf26; IL1F11; NFHEV; IL-33; IL-1F11; NF-HEV                                                                                                                               |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/il33-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/327456>