

## Rabbit anti-Human IL33 Polyclonal Antibody | anti-IL33 antibody

Rabbit Polyclonal (IgG) to Human IL33

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                              |
|-----------|--------|------------|-------------------------------------------|
| AAA50898  | Rabbit | Human      | ELISA, Western Blot, Immunohistochemistry |

### PRODUCT SYNONYMS

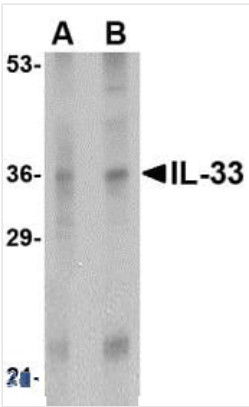
IL33; Polyclonal Antibody; Rabbit Polyclonal (IgG) to Human IL33; C9orf26; DVS27; DVS27-related protein; IL-1F11; IL-33; Interleukin-33; NFEHEV; NF-HEV; Interleukin-1 family member 11; NFHEV; IL1F11; Interleukin 33; RP11-575C20.2; anti-IL33 antibody

### PRODUCT SPECIFICATIONS

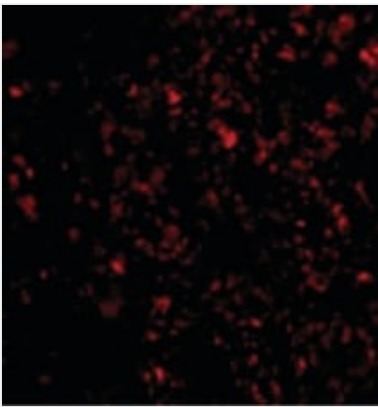
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|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                                                                                                                                                                |
| Reactivity                                     | Human                                                                                                                                                                                                                                                                                                                 |
| Clonality                                      | Polyclonal                                                                                                                                                                                                                                                                                                            |
| Isotype                                        | IgG                                                                                                                                                                                                                                                                                                                   |
| Specificity                                    | a 19 amino acid peptide from near the center of human IL-33                                                                                                                                                                                                                                                           |
| Purity/Purification                            | Immunoaffinity Purified                                                                                                                                                                                                                                                                                               |
| Form/Format                                    | PBS, 0.02% sodium azide.                                                                                                                                                                                                                                                                                              |
| Concentration                                  | 1 mg/ml (varies by lot)                                                                                                                                                                                                                                                                                               |
| Sequence Length                                | 270                                                                                                                                                                                                                                                                                                                   |
| Applicable Applications for anti-IL33 antibody | ELISA, WB (Western Blot), IHC (Immunohistochemistry)                                                                                                                                                                                                                                                                  |
| Immunogen                                      | IL-33 antibody was raised against synthetic peptide from human IL33 / IL-33.                                                                                                                                                                                                                                          |
| Antigen Type                                   | Synthetic peptide                                                                                                                                                                                                                                                                                                     |
| Immunogen                                      | IL-33 antibody was raised against synthetic peptide from human IL33 / IL-33                                                                                                                                                                                                                                           |
| Epitope                                        | Internal                                                                                                                                                                                                                                                                                                              |
| Disclaimer                                     | Due to the highly specific nature of antibodies and antigens, we cannot predict or be held responsible with respect to how this antibody will behave in your systems. Researchers using this antibody should conduct optimization studies to achieve the most optimal result possible for their intended application. |

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|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Recommended Immunohistochemistry Protocol</b> | <p>The following protocol is a recommendation only, and AAA Biotech makes no guarantee of the results:</p> <p><b>Tissue Preparation:</b><br/>Formalin fixation and embedding in paraffin wax.</p> <p><b>Tissue Sectioning:</b><br/>Make 4-um sections and place on pre-cleaned and charged microscope slides. Heat in a tissue-dryingoven for 45 minutes at 60°C.</p> <p><b>Deparaffinization:</b><br/>Wash dry slides in 3 changes of xylene - 5 minutes each @ RT</p> <p><b>Rehydration:</b><br/>Wash slides in 3 changes of 100% alcohol - 3 minutes each @ RT<br/>Wash slides in 2 changes of 95% alcohol - 3 minutes each @ RT<br/>Wash slides in 1 change of 80% alcohol - 3 minutes @ RT<br/>Rinse slides in gentle running distilled water - 5 minutes @ RT</p> <p><b>Antigen retrieval:</b><br/>Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes<br/>Remove from heat and let stand at room temperature in buffer - 20 minutes<br/>Rinse in 1X TBS with Tween (TBST) -1 minute @ RT</p> <p><b>Immunostaining:</b><br/>(Do not allow tissues to dry at any time during the staining procedure)<br/>Apply a universal protein block - 20 minutes @ RT<br/>Drain protein block from slides, apply diluted primary antibody - 45 minutes @ RT<br/>Rinse slides in 1 X TBST - 1 minute @ RT<br/>Apply a biotinylated secondary antibody appropriate for the primary antibody - 30 minutes @ RT<br/>Rinse slides in 1X TBST -1 minute @ RT<br/>Apply alkaline phosphatase streptavidin - 30 minutes @ RT<br/>Rinse slides in 1X TBST -1 minute @ RT<br/>Apply alkaline phosphatase chromogen substrate - 30 minutes @ RT<br/>Wash slides in distilled water - 1 minute @ RT</p> <p><b>Dehydrate:</b><br/>(This method should only be used if the chromogen substrate is alcohol insoluble (e.g. Vector Red, DAB)<br/>Wash slides in 2 changes of 80% alcohol - 1 minute each @ RT<br/>Wash slides in 2 changes of 95% alcohol - 1 minute each @ RT<br/>Wash slides in 3 changes of 100% alcohol - 1 minute each @ RT<br/>Wash slides in 3 changes of xylene - 1 minute each @ RT<br/>Apply coverslip</p> |
| <b>Preparation and Storage</b>                   | <p>Short term 4 degree C, long term aliquot and store at -20 degree C, avoid freeze thaw cycles. Store undiluted.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

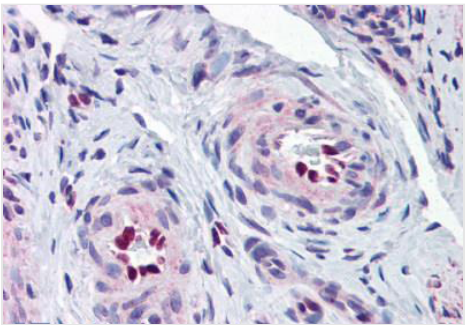
IMAGES



**WB (Western Blot)**  
Western blot of IL-33 in human lymph node tissue lysate with IL-33 antibody at (A) 1 and (B) 2 ug/ml.



**IF (Immunofluorescence)**  
Immunofluorescence of IL-33 in Human Lymph Node cells with IL-33 antibody at 20 ug/ml.



**IHC (Immunohistochemistry)**  
Anti-IL-33 antibody IHC of human uterus, vessels. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 5 ug/ml.

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-IL33 antibody | Interleukin-33 (IL33) is a cytokine belonging to the IL-1 superfamily. IL33 induces helper T cells, mast cells, eosinophils and basophils to produce type 2 cytokines. IL33 mediates its biological effects by interacting with the receptors ST2 (aka IL1RL1) and IL1 Receptor Accessory Protein (IL1RAP), activating intracellular molecules in the NF-kappaB and MAP kinase signaling pathways that drive production of type 2 cytokines (e.g. IL5 and IL13) from polarized Th2 cells. |
| Product Categories/Family for anti-IL33 antibody   | Family: Interleukin                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

NCBI AND UNIPROT INFORMATION

|                                  |                                                        |
|----------------------------------|--------------------------------------------------------|
| NCBI GI #                        | 15559209                                               |
| NCBI GeneID                      | 90865                                                  |
| NCBI Accession #                 | NP_254274.1                                            |
| NCBI GenBank Nucleotide #        | NM_033439.3                                            |
| UniProt Accession #              | O95760; Q2YEJ5; B2R8L1; B4DJ35; B4E1Q9; D3DRI5; E7EAX4 |
| Molecular Weight                 | 16,250 Da                                              |
| NCBI Official Full Name          | interleukin-33 isoform 1                               |
| NCBI Official Synonym Full Names | interleukin 33                                         |
| NCBI Official Symbol             | IL33                                                   |

|                                      |                                                                                                                                                                                  |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NCBI Official Synonym Symbols</b> | DVS27; IL1F11; NF-HEV; NFEHEV; C9orf26                                                                                                                                           |
| <b>NCBI Protein Information</b>      | interleukin-33; IL-33; IL-1F11; DVS27-related protein; interleukin-1 family member 11; nuclear factor for high endothelial venules; nuclear factor from high endothelial venules |
| <b>UniProt Protein Name</b>          | Interleukin-33                                                                                                                                                                   |
| <b>UniProt Gene Name</b>             | <b>IL33</b>                                                                                                                                                                      |
| <b>UniProt Synonym Gene Names</b>    | C9orf26; IL1F11; NFHEV; IL-33; IL-1F11; NF-HEV                                                                                                                                   |
| <b>UniProt Entry Name</b>            | IL33_HUMAN                                                                                                                                                                       |

**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-western-blot-immunohistochemistry-elisa/50898>