

**Datasheet for 600-401-BW9****IL-33 Antibody****Overview**

<b>Description:</b>	Anti-IL-33 (RABBIT) Antibody - 600-401-BW9
<b>Item No.:</b>	600-401-BW9
<b>Size:</b>	100 µg
<b>Applications:</b>	ELISA, IF, IHC, WB
<b>Reactivity:</b>	Human, Mouse
<b>Host Species:</b>	Rabbit

**Product Details**

<b>Background:</b>	Interleukin-33 (IL-33) is a recently identified member of the IL-1 family of cytokines whose other members include IL-1ab, IL-1Ra and IL-18. Its receptor has been shown to be ST2, an IL-1 receptor family member that also acts as a negative regulator of TLR-IL-1R signaling and IL-1R accessory protein (IL-1RAcP). Receptor binding of IL-33 activates NF-κB and MAP kinases and induces the expression of TH2-associated cytokines such as IL-4, IL-5 and IL-6. Prolonged IL-33 treatment of mice led to the development of eosinophilia, splenomegaly, and severe pathological changes in mucosal organs such as lungs, esophagus and small intestine. Recent experiments have shown that IL-33 can also co-localize with heterochromatin and possesses transcriptional repressor activities, indicating that IL-33 may function as both a proinflammatory cytokine and an intracellular nuclear factor with transcriptional regulatory properties.
<b>Synonyms:</b>	IL-33 Antibody, DVS27, IL1F11, NF-HEV, NFEHEV, C9orf26, NFHEV, Interleukin-33, Interleukin-1 family member 11, IL-33
<b>Host Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>Format:</b>	IgG

**Target Details**

<b>Gene Name:</b>	IL33
<b>Reactivity:</b>	Human, Mouse
<b>Immunogen Type:</b>	Conjugated Peptide

<b>Immunogen:</b>	Anti-IL-33 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 19 amino acid synthetic peptide from near the internal region of human IL-33. The immunogen is located within the 150-200 amino acids of IL-33.
<b>Purity/Specificity:</b>	Anti-IL-33 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with IL-33 from other sources has not been determined. Predicted species reactivity based on immunogen sequence: Rat: (76.5%).
<b>Relevant Links:</b>	<ul style="list-style-type: none"><li>• <a href="#">UniProtKB - O95760</a></li><li>• <a href="#">GeneID - 90865</a></li><li>• <a href="#">NCBI - NP_254274</a></li></ul>

## Application Details

<b>Tested Applications:</b>	ELISA, IF, IHC, WB
<b>Application Note:</b>	Anti-IL-33 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry, and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 31 kDa in Western Blots of specific cell lysates and tissues. Despite its predicted molecular weight, IL-33 will often run at higher molecular weight in SDS-PAGE and can be seen ~33kDa. Positive controls used are A20 cells and human lymphoid tissues.
<b>Assay Dilutions:</b>	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
<b>ELISA:</b>	1:10,000-1:20,000
<b>IF:</b>	20 µg/mL
<b>IHC:</b>	2.5µg/mL
<b>WB:</b>	1-2 µg/mL

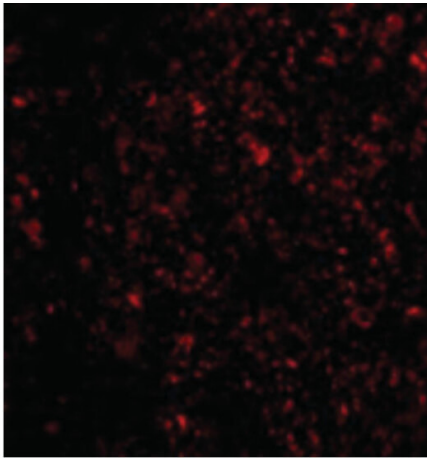
## Formulation

<b>Physical State:</b>	Liquid (sterile filtered)
<b>Concentration:</b>	1.0 mg/mL by UV absorbance at 280 nm
<b>Buffer:</b>	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
<b>Preservative:</b>	0.02% (w/v) Sodium Azide
<b>Stabilizer:</b>	None

## Shipping & Handling

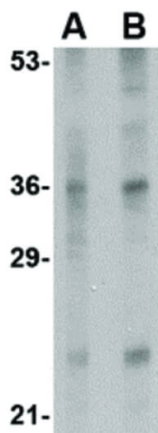
<b>Shipping Condition:</b>	Dry Ice
<b>Storage Condition:</b>	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
<b>Expiration:</b>	Expiration date is one (1) year from date of receipt.

## Images



### Immunofluorescence Microscopy

Immunofluorescence Microscopy of IL-33 antibody. Tissue: Human lymph node cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: IL-33 at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Staining: IL-33 as a red fluorescent signal.



### Western Blot

Western Blot of IL-33 antibody. Lane A: Human lymph node tissue lysate at 1 µg/mL. Lane B: Human lymph node tissue lysate at 2 µg/mL. Load: 35 µg per lane. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 30.7 kDa, 36 kDa for IL-33. Other band(s): IL-33 splice variants and isoforms.

## Disclaimer

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