

For Research Use Only

# IL-33 Polyclonal antibody

Catalog Number: 28035-1-AP



## Basic Information

<b>Catalog Number:</b> 28035-1-AP	<b>GenBank Accession Number:</b> NM_001164724	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 400 ug/ml by Nanodrop and 200 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 77125	<b>Recommended Dilutions:</b> WB 1:500-1:2000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q8BVZ5	
<b>Isotype:</b> IgG	<b>Full Name:</b> interleukin 33	
<b>Immunogen Catalog Number:</b> AG27846	<b>Calculated MW:</b> 30 kDa	
	<b>Observed MW:</b> 30-35 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : mouse lung tissue, mouse colon tissue, rat lung tissue
<b>Species Specificity:</b> mouse, rat	

## Background Information

Interleukin-33 (IL-33) is a tissue-derived nuclear cytokine from the IL-1 family abundantly expressed in endothelial cells, epithelial cells and fibroblast-like cells, both during homeostasis and inflammation. IL-33 activates many immune cell types involved in type-2 immunity and allergic inflammation, including ILC2s, mast cells, Th2 cells, eosinophils, basophils, dendritic cells and alternatively activated macrophages (AAM). As a cytokine, IL-33 interacts with the receptors ST2 (also known as IL1RL1) and IL-1 Receptor Accessory Protein (IL1RAP), activating intracellular molecules in the NF- $\kappa$ B and MAP kinase signaling pathways that drive production of type 2 cytokines (e.g. IL-5 and IL-13) from polarized Th2 cells. IL-33 is also effective in reversing Alzheimer-like symptoms in APP/PS1 mice, by reversing the buildup and preventing the new formation of amyloid plaques. IL-33 is synthesized as a 30-34 kD full-length form and 20 kDa form mature form.

## Storage

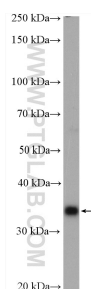
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:  
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## Selected Validation Data



mouse lung tissue were subjected to SDS PAGE followed by western blot with 28035-1-AP (il33 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.