

## Product datasheet for **TA320070**

### IL33 Mouse Monoclonal Antibody [Clone ID: 12H6D12]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	12H6D12
Applications:	IHC, WB
Recommended Dilution:	WB: 1 ug/mL, ICC: 5 ug/mL
Reactivity:	Human, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Mouse monoclonal IL-33 antibody was raised against the recombinant IL-33 protein.
Formulation:	IL-33 Monoclonal Antibody is supplied in PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	IL-33 Monoclonal Antibody is immunoaffinity chromatography purified IgG.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	interleukin 33
Database Link:	<a href="#">NP_001186569</a> <a href="#">Entrez Gene 77125 Mouse</a> <a href="#">Entrez Gene 90865 Human</a> <a href="#">O95760</a>



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**Background:**

IL-33 Monoclonal Antibody: Interleukin-33 (IL-33) is a recently identified member of the IL-1 family of cytokines whose other members include IL-1 $\alpha$ , IL-1 $\beta$ , 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- $\kappa$ B 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. Despite its predicted molecular weight, IL-33 will often run at higher molecular weight in SDS-PAGE.

**Synonyms:**

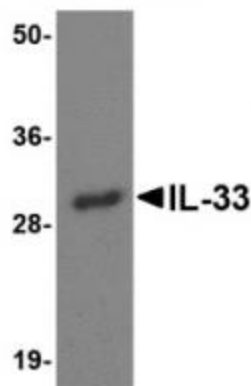
C9orf26; DVS27; IL1F11; NF-HEV; NFEHEV

**Protein Families:**

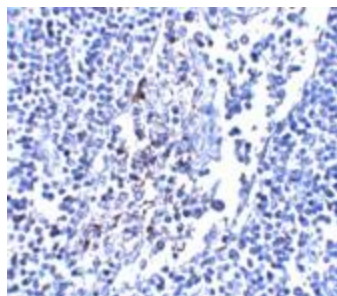
Secreted Protein

**Protein Pathways:**

Cytosolic DNA-sensing pathway

**Product images:**

Western blot analysis of IL-33 using 125ng of recombinant IL-33 with IL-33 antibody at 1 ug/mL.



Immunohistochemistry of IL-33 in human lymph node tissue with IL-33 antibody at 5 ug/mL.