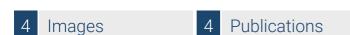


## Datasheet for ABIN1169172

# anti-IL-33 antibody





#### Go to Product page

### Overview

Quantity:	100 μg
Target:	IL-33 (IL33)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This IL-33 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunoprecipitation (IP), Functional Studies (Func)

## **Product Details**

Immunogen:	Recombinant human IL-33.
Clone:	IL33305B
Isotype:	lgG2a
Specificity:	Recognizes human IL-33.
Cross-Reactivity:	Human
No Cross-Reactivity:	Mouse (Murine)
Cross-Reactivity (Details):	Does not cross-react with mouse IL-33.
Sterility:	0.2 μm filtered

# **Target Details**

Target:	IL-33 (IL33)
Alternative Name:	IL-33 (IL33 Products)
Background:	Interleukin-33 (IL-33, HF-NEV, IL-1F11), a member of the IL-1 family of cytokines, is expressed
	by many cell types following pro-inflammatory stimulation and is thought to be released on cell
	lysis. The 30 kDa human IL33 is converted by CASP1 to a 18 kDa protein. IL33 binds to and
	signals through ST2 (IL1R1) and its stimulation recruits MYD88, IRAK, IRAK4, and TRAF6,
	followed by phosphorylation of ERK1 (MAPK3)/ERK2 (MAPK1), p38(MAPK14), and JNK. The
	ability of IL-33 to target numerous immune cell types, like Th2-like cells, mast cells, and B1 cells
	and to induce cytokine and chemokine production underlines its potential in influencing the
	outcome of a wide range of diseases, such as arthritis, asthma, atopic allergy & anaphylaxis,
	cardiovascular disease/atherosclerosis, nervous system diseases, and sepsis.
UniProt:	095760
Pathways:	Production of Molecular Mediator of Immune Response
Application Details	
Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	Lot specific
Buffer:	0.2μm-filtered solution in PBS, pH 7.4. Contains no preservatives.
Preservative:	Without preservative
Storage:	4 °C,-20 °C
Storage Comment:	Short Term Storage: +4°C
	Long Term Storage: -20°C
	Stable for at least 1 year after receipt when stored at -20°C.
Expiry Date:	12 months
Publications	

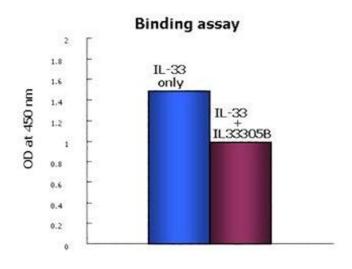
Gjomarkaj: "Cigarette smoke alters IL-33 expression and release in airway epithelial cells." in: **Biochimica et biophysica acta**, Vol. 1842, Issue 9, pp. 1630-7, (2014) (PubMed).

Palmer, Talabot-Ayer, Lamacchia, Toy, Seemayer, Viatte, Finckh, Smith, Gabay: "Inhibition of interleukin-33 signaling attenuates the severity of experimental arthritis." in: **Arthritis and rheumatism**, Vol. 60, Issue 3, pp. 738-49, (2009) (PubMed).

Chapuis, Hot, Hansmannel, Kerdraon, Ferreira, Hubans, Maurage, Huot, Bensemain, Laumet, Ayral, Fievet, Hauw, DeKosky, Lemoine, Iwatsubo, Wavrant-Devrièze, Dartigues, Tzourio, Buée, Pasquier, Berr et al.: "Transcriptomic and genetic studies identify IL-33 as a candidate gene for Alzheimer's disease. ..." in: **Molecular psychiatry**, Vol. 14, Issue 11, pp. 1004-16, (2009) (PubMed).

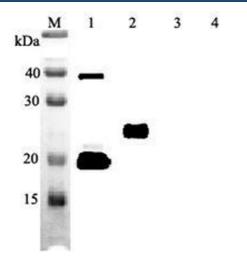
Talabot-Ayer, Lamacchia, Gabay, Palmer: "Interleukin-33 is biologically active independently of caspase-1 cleavage." in: **The Journal of biological chemistry**, Vol. 284, Issue 29, pp. 19420-6, (2009) (PubMed).

### **Images**



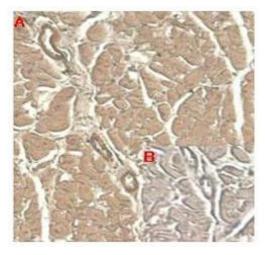
### **ELISA**

Image 1. Inhibition of binding of recombinant human IL-33 (hIL-33) to human ST2 (hST2) in vitro using anti-IL-33 (human), mAb (IL33305B). An indirect competitive ELISA was performed as follows; 1) coat microtiter plate wells with hST2-Fc (10 ug/ml); 2) add 2 ug/ml of IL-33 with or without a hIL-33 mAb to the wells followed by washing; 3) add anti-FLAG HRP conjugated (1:2,000) to an enzyme; 4) after adding the TMB solution, incubate at RT in the dark for 20 minutes. Immediately read the plate at 450 nm.



### **Western Blotting**

**Image 2.** Western blot analysis of human IL-33 using anti-IL-33 (human), mAb (IL33305B) at 1:2,000 dilution. 1). Recombinant human IL-33 (His tagged). 2). Recombinant human IL-33 (FLAG ® -tagged). 3). Recombinant mouse IL-33 (FLAG ® -tagged). 4). Other protein (His tagged, negative control).



### **Immunohistochemistry**

**Image 3.** Immunohistochemical staining of human tissue using anti-IL-33 (human), mAb (IL33305B) at 1:100 dilution.

A. Immunoperoxidase staining (cytoplasmic) of formalin-fixed, paraffin-embedded human heart (100x, brown colour).

B. Isotype control with IgG2a (negative control).

Please check the product details page for more images. Overall 4 images are available for ABIN1169172.