

Datasheet for ABIN1169164

**anti-IL-33 antibody****1** Image**1** Publication[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	IL-33 (IL33)
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), ELISA

## Product Details

Immunogen:	Recombinant mouse IL-33.
Specificity:	Recognizes mouse IL-33. Detects a band of ~18 kDa by Western blot.
Cross-Reactivity:	Mouse (Murine)
No Cross-Reactivity:	Human
Cross-Reactivity (Details):	Does not cross-react with human IL-33.
Sterility:	0.2 µm filtered

## Target Details

Target:	IL-33 (IL33)
Alternative Name:	IL-33 ( <a href="#">IL33 Products</a> )
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

## Target Details

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: [Q8BVZ5](#)

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 6 months after receipt when stored at -20°C.

Expiry Date: 6 months

## Publications

Product cited in: Kaczmarek, Lagiedo, Masztalerz, Kozłowska, Nowicka, Brajer, Batura-Gabryel, Sikora: "Concentrations of SP-A and HSP70 are associated with polarization of macrophages in pleural effusions of non-small cell lung cancer." in: **Immunobiology**, Vol. 223, Issue 2, pp. 200-209, (2018) ([PubMed](#)).

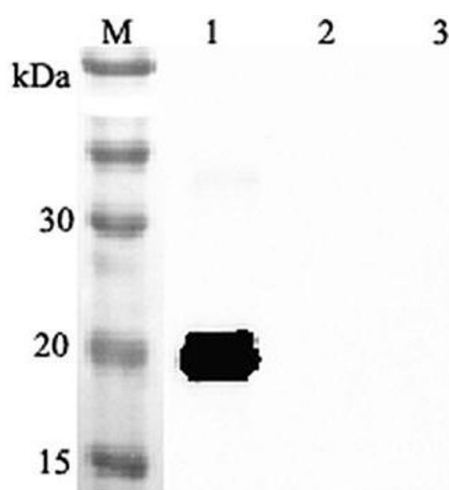
Yin, Feng, Zhao, Zhao, Yua, Xu, Che: "SIRT1 inhibits releases of HMGB1 and HSP70 from human umbilical vein endothelial cells caused by IL-6 and the serum from a preeclampsia patient and protects the cells from death." in: **Biomedicine & pharmacotherapy**, Vol. 88, pp. 449-458, (2017) ([PubMed](#)).

Sadowska-Krępa, Kłapcińska, Jagsz, Nowara, Szołtysek-Boldys, Chalimoniuk, Langfort, Chrapusta: "High-dose testosterone enanthate supplementation boosts oxidative stress, but exerts little effect on the antioxidant barrier in sedentary adolescent male rat liver." in: **Pharmacological reports : PR**, Vol. 69, Issue 4, pp. 673-678, (2017) ([PubMed](#)).

İn, Özdemir, Kaman, Sökücü: "Heat Shock Proteins, L-Arginine, and Asymmetric Dimethylarginine Levels in Patients With Obstructive Sleep Apnea Syndrome." in: **Archivos de bronconeumología**, Vol. 51, Issue 11, pp. 544-50, (2015) ([PubMed](#)).

Barros, Vasconcelos, Souza, Andrade, Moraes, Costa, Coelho, Garcia: "L-Alanyl-Glutamine Attenuates Oxidative Stress in Liver Transplantation Patients." in: **Transplantation proceedings**, Vol. 47, Issue 8, pp. 2478-82, (2015) ([PubMed](#)).

## Images



### Western Blotting

**Image 1.** Western blot analysis using anti-IL-33 (mouse), pAb at 1:2'000 dilution. 1: Mouse IL-33 (His-tagged). 2: Human IL-33 (His-tagged). 3: Unrelated protein (His-tagged) (negative control).