

Datasheet for ABIN964749

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

## Overview

Quantity:	100 µg
Target:	IL-33 (IL33)
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Neutralization (Neut), Radioimmunoassay (RIA)

## Product Details

Immunogen:	This purified antibody was prepared from whole rabbit serum produced by repeated immunizations with full length recombinant human IL-33 protein. Immunogen Type: RecombinantProtein
Isotype:	IgG
Specificity:	This purified antibody has been heated to 56°C for 30 minutes. In ELISA and other immunoreactive assays, this antibody will recognize both native and recombinant human IL-33 in cell supernatants and certain body fluids. A control of similarly diluted normal rabbit IgG is recommended.
Characteristics:	IL-33 (also known as Interleukin-33, Interleukin-1 family member 11, IL-1F11, nuclear factor from high endothelial venules and NF-HEV) is a cytokine that binds to and signals through IL1RL1/ST2 and its stimulation recruits MYD88, IRAK1, IRAK4, and TRAF6, followed by phosphorylation of MAPK3/ERK1 and/or MAPK1/ERK2, MAPK14, and MAPK8. IL-33 induces T helper type 2-associated cytokines. IL-33 is a secreted cytokine that is expressed at high levels

## Product Details

in high endothelial venules found in tonsils, Peyer patches and mesenteric lymph nodes and is almost undetectable in placenta. The 31 kDa precursor is proteolytically converted to an 18 kDa mature form by CASP1. Anti-IL-33 antibody is ideal for investigators involved in Cardiovascular and Immunology research.

Purification: purified

## Target Details

Target: IL-33 (IL33)

Alternative Name: IL-33 ([IL33 Products](#))

Background: IL-33 (also known as Interleukin-33, Interleukin-1 family member 11, IL-1F11, nuclear factor from high endothelial venules and NF-HEV) is a cytokine that binds to and signals through IL1RL1/ST2 and its stimulation recruits MYD88, IRAK1, IRAK4, and TRAF6, followed by phosphorylation of MAPK3/ERK1 and/or MAPK1/ERK2, MAPK14, and MAPK8. IL-33 induces T helper type 2-associated cytokines. IL-33 is a secreted cytokine that is expressed at high levels in high endothelial venules found in tonsils, Peyer patches and mesenteric lymph nodes and is almost undetectable in placenta. The 31 kDa precursor is proteolytically converted to an 18 kDa mature form by CASP1. Anti-IL-33 antibody is ideal for investigators involved in Cardiovascular and Immunology research.

Synonyms: Interleukin-33, Interleukin-1 family member 11, IL-1F11, nuclear factor from high endothelial venules and NF-HEV

Gene ID: 90865, 15559209

UniProt: [O95760](#)

Pathways: [Production of Molecular Mediator of Immune Response](#)

## Application Details

Application Notes: This purified antibody has been tested for use in ELISA and western blotting. Reactivity is also expected in neutralizations, radioimmunoassay and immunohistochemistry. The endotoxin content is estimated to be <10 pg/μl by the LAL method. By western blot a band approximately 18 kDa in size corresponding to mature human IL-32α protein is expected in the appropriate cell lysate or extract. Specific conditions for reactivity should be optimized by the end user.

Comment: Gene Name: IL33

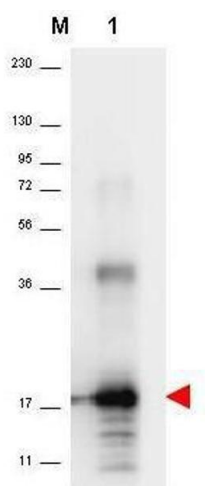
Restrictions: For Research Use only

## Handling

Format:	Lyophilized
Reconstitution:	Reconstitution Buffer: Restore with deionized water (or equivalent), Reconstitution Volume: 100 $\mu$ L
Concentration:	1.0 mg/mL
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	Without preservative
Storage:	4 °C
Storage Comment:	Store vial at 4° C before opening. DO NOT FREEZE. This product is stable at 4° C as an undiluted liquid. Dilute only prior to immediate use. Freezing alkaline phosphatase conjugates will result in a substantial loss of enzymatic activity. Expiration date is one (1) year from date of opening.
Expiry Date:	12 months

## Publications

Product cited in:	<p>Jung, Warter, Rumpler: "Localization of stromelysin 2 gene to the q22.3-23 region of chromosome 11 by in situ hybridization." in: <b>Annales de génétique</b>, Vol. 33, Issue 1, pp. 21-3, (1990) (<a href="#">PubMed</a>).</p> <p>Muller, Quantin, Gesnel, Millon-Collard, Abecassis, Breathnach: "The collagenase gene family in humans consists of at least four members." in: <b>The Biochemical journal</b>, Vol. 253, Issue 1, pp. 187-92, (1988) (<a href="#">PubMed</a>).</p>
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### Western Blotting

**Image 1.** Western blot using anti-Human IL-33 antibody shows detection of a band ~18 kDa in size corresponding to recombinant human IL-33 (lane 1). The identity of the higher molecular weight band is unknown. Molecular weight markers are also shown (M). After transfer, the membrane was blocked overnight with 3% BSA in TBS followed by reaction with primary antibody at a 1:1,000 dilution. Detection occurred using peroxidase conjugated anti-Rabbit IgG secondary antibody diluted 1:40,000 in blocking buffer for 30 min at RT followed by reaction with chemiluminescent substrate. Image was captured using MP 4000 imaging system (Bio-Rad).