

Datasheet for ABIN1344110

**IL-33 Protein (AA 112-270) (His tag)****3** Publications[Go to Product page](#)

## Overview

Quantity:	10 µg
Target:	IL-33 (IL33)
Protein Characteristics:	AA 112-270
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This IL-33 protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

## Product Details

Specificity:	Binds to human ST2.
Cross-Reactivity:	Human
Characteristics:	Human IL-33 (aa 112-270) is fused at the C-terminus to a His-tag.
Purity:	>90 % (SDS-PAGE)
Sterility:	0.2 µm filtered
Endotoxin Level:	<1EU/µg purified protein (LAL test, Lonza).

## Target Details

Target:	IL-33 (IL33)
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## Target Details

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 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.
Molecular Weight:	~18kDa (SDS-PAGE)
UniProt:	<a href="#">Q2YEJ5</a>
Pathways:	<a href="#">Production of Molecular Mediator of Immune Response</a>

## Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	Activates human ST2-dependent NF-kappaB pathway.
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	0.2µm-filtered solution in 55 mM TRIS-Cl, pH 8.2, containing 150 mM NaCl.
Storage:	4 °C,-20 °C
Storage Comment:	Short Term Storage: +4°C Long Term Storage: -20°C Working aliquots are stable for up to 3 months when stored at -20°C.
Expiry Date:	3 months

## Publications

Product cited in:	Geng, White, Paine, Snead: "Protein Interaction between Ameloblastin and Proteasome Subunit
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? Type 3 Can Facilitate Redistribution of Ameloblastin Domains within Forming Enamel." in: **The Journal of biological chemistry**, Vol. 290, Issue 34, pp. 20661-73, (2015) ([PubMed](#)).