

Datasheet for ABIN1344108
IL-33 Protein (AA 109-266) (His tag)



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Overview

Quantity:	10 µg
Target:	IL-33 (IL33)
Protein Characteristics:	AA 109-266
Origin:	Human, Mouse
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

Purpose:	IL-33 (mouse) (rec.) (His)
Specificity:	Binds to mouse and human ST2.
Cross-Reactivity:	Human, Mouse
Characteristics:	Mouse IL-33 (aa 109-266) is fused at the C-terminus to a His-tag.
Purity:	>90 % (SDS-PAGE)
Sterility:	Sterile filtered
Endotoxin Level:	<1EU/µg purified protein (LAL test).
Biological Activity Comment:	Activates mouse and human ST2-dependent NF-kappaB pathway.

Target Details

Target:	IL-33 (IL33)
Alternative Name:	IL-33 (IL33 Products)
Background:	<p>Interleukin-33, IL-1F11, NF-HEV</p> <p>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.</p>
Molecular Weight:	~20kDa (SDS-PAGE)
UniProt:	Q2YEJ4
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
Buffer:	0.2µm-filtered solution in 55 mM TRIS-Cl, pH 8.2, containing 150 mM NaCl.
Handling Advice:	After opening, prepare aliquots and store at -20 °C. Avoid freeze/thaw cycles. For maximum product recovery after thawing, centrifuge the vial before opening the cap.
Storage:	4 °C, -20 °C
Storage Comment:	<p>Short Term Storage: +4°C</p> <p>Long Term Storage: -20°C</p> <p>Use & Stability: Stable for at least 2 years after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.</p>
Expiry Date:	24 months