Datasheet for ABIN1343983

IL-33 Protein (AA 112-270)

2 Publications

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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
Application:	SDS-PAGE (SDS)

Product Details

Specificity:	Binds to human ST2.
Cross-Reactivity:	Human
Characteristics:	Human IL-33 (aa 112-270) is untagged.
Purity:	>95 % (SDS-PAGE)
Endotoxin Level:	<0.1EU/µg purified protein (LAL test, Lonza).

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

Target Details

	by many cell types following pro-inflammatory stimulation and is thought to be released upon cell lysis. 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
UniProt:	Q2YEJ5
Pathways:	Production of Molecular Mediator of Immune Response

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:	Lyophilized
Reconstitution:	Reconstitute with 100 µL sterile water.
Concentration:	Lot specific
Buffer:	Lyophilized. Contains PBS.
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:	Atsriku, Hoffmann, Moghaddam, Kumar, Surapaneni: "In vitro metabolism of a novel JNK inhibitor tanzisertib: interspecies differences in oxido-reduction and characterization of

enzymes involved in metabolism." in: **Xenobiotica; the fate of foreign compounds in biological systems**, Vol. 45, Issue 6, pp. 465-80, (2015) (PubMed).

