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IL-33 Recombinant Protein

Cat. No.: 95-106

IL-33 Recombinant Protein

Specifications

SPECIES:	Human
SOURCE SPECIES:	E. coli
SEQUENCE:	aa 1 - 270
FUSION TAG:	**Fusion Partner:** C-terminal His-tag
TESTED APPLICATIONS:	ELISA, WB
APPLICATIONS:	This recombinant protein can be used for WB and ELISA. For research use only.
PREDICTED MOLECULAR WEIGHT:	30 kDa (Calculated)

Properties

PURITY:	~95%
PHYSICAL STATE:	Liquid
BUFFER:	100mM sodium phosphate, 500mM NaCl, 25 mM imidazole, 10% gycerol
STORAGE CONDITIONS:	Store in working aliquots at -70˚C. Avoid freeze/thaw cycles. When working with proteins care should be taken to keep recombinant protein at a cool and stable temperature.

Additional Info

OFFICIAL SYMBOL:	IL33
ALTERNATE NAMES:	IL-33 Antibody: DVS27, IL1F11, NF-HEV, NFEHEV, C9orf26, NFHEV, Interleukin-33, Interleukin-1 family member 11, IL-33
ACCESSION NO.:	NP_254274
PROTEIN GI NO.:	15559209
GENE ID:	90865

Background and References

BACKGROUND:	Interleukin-33 (IL-33) is a recently identified member of the IL-1 family of cytokines whose other members include IL-1□□□, IL-1Ra and IL-18 (1,2). Its receptor has been shown to be ST2, an IL-1 receptor family member that also acts as a negative regulator of TLR-IL-1R signaling (1,3) and IL-1R accessory protein (IL-1RAcP) (4). Receptor binding of IL-33 activates NF-□B and MAP kinases and induces the expression of TH2-associated cytokines such as IL-4, IL-5 and IL-6. Prolonged IL-33 treatment of mice led to the development of eosinophilia, splenomegaly, and severe pathological changes in mucosal organs such as lungs, esophagus and small intestine (2). Recent experiments have shown that IL-33 can also co-localize with heterochromatin and possesses transcriptional repressor activities, indicating that IL-33 may function as both a proinflammatory cytokine and an intracellular nuclear factor with transcriptional regulatory properties (5).
REFERENCES:	1) Schmitz J, Owyang A, Oldham E, et al. IL-33, and interleukin-1-like cytokine that signals via the IL-1 receptor-related protein ST2 and induces T helper type 2-associated cytokines. Immunity 2005; 23:479-90.
	2) Dinarello CA. Interleukin-18, a proinflammatory cytokine. Eur. Cytokine Netw. 2000; 11:483-6.
	3) Brint EK, Xu D, Liu H, et al. ST2 is an inhibitor of interleukin 1 receptor and Toll-like receptor 4 signaling and maintains endotoxin tolerance. Nat. Immunol. 2004; 5:373-9.
	4) Chackerian AA, Oldham ER, Murphy EE, et al. IL-1 receptor accessory protein and ST2 comprise the IL-33 receptor complex. J. Immunol. 2007; 179:2551-5.