

Mouse IL-33 (ELISA Standard) Recombinant Protein, eBioscience™

Product Details	
Size	4 pack
Species	Mouse
Expression system	E. coli
Amino acid sequence	Mouse IL-33, amino acids Ser109-Ile266
Molecular weight	30 kDa
Class	Recombinant
Type	Protein
Conjugate	Unconjugated
Form	Lyophilized
Purification	Affinity chromatography
Contains	no preservative
Storage conditions	4° C

Applications	Tested Dilution	Publications
ELISA (ELISA)	Assay-Dependent	-
Control (Ctrl)	Assay-Dependent	-

Product Specific Information

Description: Mouse IL-33, also called NF-HEV and DVS 27, is a 30 kDa proinflammatory cytokine produced by endothelial and epithelial cells. IL-33 is released during necrotic cell death but was first found in the nucleus of endothelial cells. This dual pattern of expression is reminiscent of "alarmins" also known as endogenous danger signals. Other known alarmins are IL-1 alpha; and HMGB1. IL-33 has been identified as the ligand for ST2 (a member of the IL-1 receptor family). ST2 is stably expressed on mast cells and T(h)2 effector T cells and is functionally associated with T(h)2-mediated inflammation. Although IL-33 was initially reported to be processed by Caspase-1, recent data indicate that Caspase-3 or -7 are capable of processing IL-33 at more physiologic concentrations. IL-33 plays an immune regulatory role by inducing IL-5 and IL-13 in vitro and in vivo and activating basophils, eosinophils and mast cells. In addition to its role in proinflammation, it may also decrease inflammation through interactions with IL-1 thereby blocking its effect. Mouse IL-33 share 55% amino acid sequence identity with human and 90% with rat.

Applications Reported: This Mouse IL-33 ELISA Lyophilized Standard has been reported for use in the Mouse IL-33 Ready-Set-Go! ELISA kit (cat. 88-7333).

Applications Tested: The Mouse IL-33 Lyophilized Standard is intended to be used as a standard for the Mouse IL-33 Ready-Set-Go! ELISA kit (cat. 88-7333). Typically the standard is run in a series of 7 doubling dilutions from the 'top' standard. Please refer to the Certificate of Analysis included with each ELISA set for instructions on the proper reconstitution and dilution of the lyophilized standard.

Note: These are single-use vials. Use one time within 4 hours of reconstitution and discard. Reconstitute and dilute as suggested in the Certificate of Analysis or recovery may not be accurate.

Source: E. coli expressed protein consisting of amino acids Ser 109-Ile 266 of mature mouse IL-33.

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