

Store at
-20°C

Human IL-33 Recombinant Protein



Cell Signaling
TECHNOLOGY®

#61135

10 µg

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Entrez-Gene ID #90865
UniProt ID #O95760

New 11/20

For Research Use Only. Not For Use In Diagnostic Procedures.

Background: IL-33 (Interleukin-33, NF-HEV) is a nuclear cytokine that is part of the IL-1 family (1,2). Originally discovered as the 'nuclear factor from high endothelial venules,' it is widely expressed by endothelial cells as well as epithelial barrier tissues (1,5). IL-33 is involved in regulating type 2-associated innate immune responses (2,4). It is the ligand for ST2 which, along with IL-1RAcP, forms the IL-33R signaling complex (2,3). IL-33 functions as an alarmin upon cellular damage or stress, and is associated with allergic inflammation and asthma (5,6).

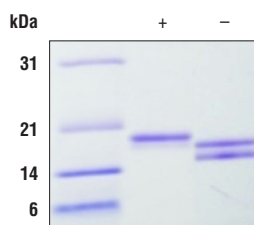
Molecular Weight: 18 kDa

Endotoxin: Endotoxin levels are ≤ 1 EU / 1 µg hIL-33.

Purity: $\geq 95\%$ purity was determined by SDS-PAGE.

Source/Purification: Recombinant human IL-33 was expressed in *E. coli* and is supplied in a lyophilized form.

Bioactivity: The bioactivity of recombinant hIL-33 was determined in a D10S cell proliferation assay. The ED₅₀ of each lot is ≤ 500 pg/ml.



The purity of Human IL-33 Recombinant Protein was determined by SDS-PAGE of 1 µg reduced (+) and non-reduced (-) recombinant hIL-33 and staining with Coomassie Blue.

Storage: Human IL-33 Recombinant Protein is supplied as lyophilized material that is very stable at -20°C. It is recommended to reconstitute with sterile water at a concentration of 0.1 mg/ml which can be further diluted in aqueous solutions as needed. Addition of a carrier protein (0.1% HSA or BSA) is recommended for long-term storage.

Background References:

- (1) Baekkevold, E.S. et al. (2003) *Am J Pathol* 163, 69-79.
- (2) Schmitz, J. et al. (2005) *Immunity* 23, 479-90.
- (3) Chackerian, A.A. et al. (2007) *J Immunol* 179, 2551-5.
- (4) Smithgall, M.D. et al. (2008) *Int Immunol* 20, 1019-30.
- (5) Moussion, C. et al. (2008) *PLoS One* 3, e3331.
- (6) Cayrol, C. and Girard, J.P. (2014) *Curr Opin Immunol* 31, 31-7.

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Applications: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide **Species Cross-Reactivity:** H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—Horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.