

IL-33 (Hu) Rabbit Recombinant Oligoclonal Antibody – Purified

Catalog no. 710004

(See product label for lot information)



Clone/PAD: 18HCLC
Isotype: IgG
Gene ID: 90865
Protein Acc. no.: O95760
Qty: 100 µg
Volume: 200 µl
Concentration: 0.5 mg/mL

Formulation

PBS + 0.09% sodium azide

Validation

Validated for use in WB

Immunogen

Recombinant protein

Sequence Identity

Human

Expected Reactivity

Based on sequence identity and similarity, reactivity to Human is expected.

Storage

2-8°C for up to 1 month, -20°C for long term storage. Avoid repeated freezing and thawing.

Expiration Date

Expires one year from date of receipt when stored as instructed.

Background

Interleukin 33, previously known as NF-HEV, is a proinflammatory cytokine with sequence and structural homology to IL-1 family cytokines (1). The full length protein of 270 amino acids has a predicted MW of 30kDa which is converted by Caspase1 to a mature protein of 18kDa (1). IL-33 exerts its biological effects by binding to the receptor ST2 and forming a complex with IL-1 Receptor Accessory Protein(2). Intracellular proteins within in the NF-κB and MAP kinase signaling pathways are activated leading to the production of the type 2 cytokines IL-5 and IL-13 from polarized TH2 cells (3).

References

1. Baekkevold, E.S., M. Roussigne, T. Yamanaka, F.E. Johansen, F.L. Jahnsen, F. Amalric, P. Brandtzaeg, M. Erard, G. Haraldsen, J.P. Girard (2003) Molecular characterization of NF-HEV, a nuclear factor preferentially expressed in human high endothelial venules. *Am. J. Path.* 163: 69-79.
2. Schmitz, J., A. Owyang, E. Oldham, Y. Song, E. Murphy, T.K. McClanahan, G. Zurawski, M. Moshrefi, J. Qin, X. Li, D.M. Gorman, J.F. Bazan, R.A. Kastelein (2005) IL-33, an interleukin-1-like cytokine that signals via the IL-1 receptor-related protein ST2 and induces T helper type 2-associated cytokines. *Immunity* 23(5):479-90.
3. Chackerian, A.A., E.R. Oldham, E.E. Murphy, J. Schmitz, S. Pflanz, R.A. Kastelein (2007) IL-1 receptor accessory protein and ST2 comprise the IL-33 receptor complex. *J Immunol.* 179(4):2551-5.

Following applications had been tested during development. To make sure the consistency and reliability in the future lots, each lot is tested with antigen ELISA for specificity and potency. Each lot is also tested with SDS-PAGE, to ensure high purity.

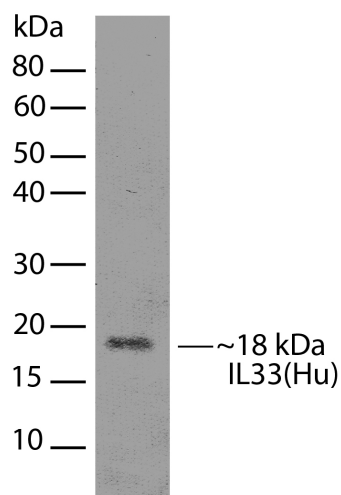
Applications:

	Species	Test Material	Concentration
Western Blotting	Human	Rec Hu. IL33	0.5-2 µg/ml

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Western Blot of IL33 (Hu) labeled with rabbit anti-IL33 (Hu) (Cat. No. 710004).

Rabbit anti-IL33 (Hu) (1 µg/ml) was used to label IL33 (Hu) in Rec Hu IL33 (1 ng). The western was performed using the WesternBreeze® kit with NBT/BCIP as the substrate (Cat. No.WB7105).

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