

Anti-IL-33 Antibody (Monoclonal, Nessay-1)

Catalog Number: M00113

Introduction

CD3epsilon is a 20kD chain, which together with CD3lambda, CD3delta, and CD3zeta, and a T cell receptor (alpha/beta or gamma/delta) form the CD3/T-cell receptor complex. It is a specific marker for T lymphocytes, NK T cells, and some thymocytes. Crosslinking of TCR initiates an intracellular signaling cascade resulting in cellular activation and proliferation. The OKT3 antibody has been reported to have potent immunosuppressive properties in vivo and has been proved effective in the treatment of renal, heart, and liver allograft rejection.

This antibody is routinely tested by flow cytometric analysis. Flow cytometry and other applications were tested during antibody development or are reported in the literature.

Application Information

Each lot of this antibody has been pre-titrated and tested by flow cytometric analysis of human PBMCs such that 2-5µl of this product is sufficient for staining of 1 million cells in a 100µl staining volume or 100µl of whole blood. This biotin conjugated antibody can be easily detected by any fluorochrome conjugated streptavidin. It is recommended that antibody reactivity be empirically titrated for optimal performance in the application of interest.

About IL33

Interleukin 33 (IL-33) is a cytokine belonging to the IL-1 superfamily. The IL33 gene maps to chromosome 9p24.1 by using of genomic database analysis. Recombinant mature human IL33 bound to ST2. The induction of type 2 cytokines by IL-33 in vivo is believed to induce the severe pathological changes observed in mucosal organs following administration of IL-33. IL33, an alarmin released from necrotic cells, is necessary for potent CD8 + T cell (CTL) responses to replicating, prototypic RNA, and DNA viruses in mice. IL33 prevented the downregulation of CXCR2 and inhibition of chemotaxis induced by activation of TLR4, and found that IL33 reverses the TLR4-induced reduction of CXCR2 expression via the inhibition of expression of GRK2.

Overview

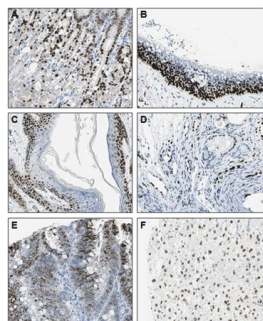
Product Name	Anti-IL-33 Antibody (Monoclonal, Nessay-1)
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-IL-33 Antibody (Monoclonal, Nessay-1) (Catalog# M00113). Tested in ELISA, IHC-P, IP, WB application(s). This antibody reacts with Human, Mouse, Rat.
Conjugate	HRP
Application	ELISA, IP, IHC-P, WB
Clonality	Monoclonal Nessay-1
Formulation	Liquid. In PBS.
Storage Instructions	Store at -20°C for one year. For short-term storage and frequent use, store at 4°C for up to one

	month. Avoid repeated freeze-thaw cycles.
Host	Mouse
Uniprot ID	O95760

Technical Details

Immunogen	Recombinant human IL-33 (aa 112-270)
Predicted Reactive Species	Bovine, Mammalian
Cross Reactivity	Weakly cross-reacts with human PDGF receptor beta.
Isotype	IgG1kappa
Form	Liquid
Concentration	1 mg/mL
Purification	Protein G-affinity purified.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Immunoprecipitation (1:100)</p> <p>Western Blot (1:1,000)</p> <p>Suggested dilutions/conditions may not be available for all applications. Optimal conditions must be determined individually for each application.</p>

Anti-IL-33 Antibody (Monoclonal, Nessler-1) (M00113) Images



IL-33 was detected in paraffin-embedded sections of human stomach tissues (A), human bronchus tissues (B), human vulva/anal skin tissues (C), human nasopharynx tissues (D), human colorectal cancer tissues (E), human malignant glioma tissues (F) using mouse anti-IL-33 Antigen Affinity purified monoclonal antibody (Catalog # M00113). The immunohistochemical section was developed using SABC method (Catalog # SA1021).

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