



INTERLEUKIN-33

and the ST2 (IL1RL1) Receptor

highlight

Tomorrow's Reagents Manufactured Today®

International Version

NEW

Product Overview

Proteins

NEW IL-33 (human) (rec.) (His)

ALX-201-350-C010	10 µg
ALX-201-350-C050	50 µg

NEW IL-33 (mouse) (rec.) (His)

ALX-201-361-C010	10 µg
ALX-201-361-C050	50 µg

NEW IL-33 (human) (rec.) (FLAG®)

ALX-201-363-C010	10 µg
ALX-201-363-C050	50 µg

Antibodies

NEW PAb to IL-33 (AT110)

ALX-210-933-C100	100 µg
ALX-210-933B-C100 Biotin	100 µg

From rabbit. IMMUNOGEN: Soluble human recombinant IL-33 (aa 112-270) (Prod. No. ALX-522-098). SPECIFICITY: Recognizes human and mouse IL-33. APPLICATION: ELISA, WB.

NEW PAb to IL-33 (human)

ALX-210-447-C100	100 µg
ALX-210-447B-C050 Biotin	50 µg

NEW PAb to IL-33 (mouse)

ALX-210-449-C100	100 µg
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First Monoclonal Antibody to IL-33

NEW MAb to IL-33 (Nessy-1)

ALX-804-840-C100	100 µg
ALX-804-840B-C100 Biotin	100 µg

CLONE: Nessy-1. IMMUNOGEN: Recombinant human IL-33 (aa 112-270). SPECIFICITY: Recognizes human and mouse IL-33. APPLICATION: ELISA, IP, WB.

Introduction

In 2003 Baekkevold, et al. characterized a protein of 30 kDa which they designated as nuclear factor from high endothelial venules (NF-HEV) [1]. Recently, this protein has been classified as a member of the interleukin-1 (IL-1) family and concomitantly (re-) named interleukin-33 (IL-33, IL-1F11) [2, 3]. Members of the interleukin-1 (IL-1) family such as IL-1 α / β , IL-1Ra and IL-18 are inflammatory cytokines which exert their function through their binding to receptors of the IL-1 receptor family. IL-33 has been identified as the specific ligand of ST2 (Interleukin-1 receptor-like 1; IL1RL1; DER4; Fit-1; T1), an orphan member of the IL-1 receptor family which has been already identified 17 years ago [4, 5]. Similar to IL-1 β and IL-18, IL-33 is synthesized as a precursor which is cleaved by caspase-1 to its 18 kDa active form. Binding

to ST2 results in the activation of MyD88, IRAK4, and TRAF6 as well as the activation of NF- κ B and MAP kinases. IL-33 also promotes the production of type 2 helper T cells (T_H2)-associated cytokines and can lead to severe pathology at mucosal sites.

LIT. [1] Molecular characterization of NF-HEV, a nuclear factor preferentially expressed in human high endothelial venules: E. S. Baekkevold, et al; *Am. J. Pathol.* **163**, 69 (2003) • [2] 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: J. Schmitz, et al; *Immunity* **23**, 479 (2005) • [3] An IL-1 family member requires caspase-1 processing and signals through the ST2 receptor: C. A. Dinarello; *Immunity* **23**, 461 (2005) (Commentary to [2]) • [4] A putative protein of a growth specific cDNA from BALB/c-3T3 cells is highly similar to the extracellular portion of mouse interleukin 1 receptor: S. Tominaga; *FEBS Lett.* **258**, 301 (1989) • [5] Serum- and oncoprotein-mediated induction of a gene with sequence similarity to the gene encoding carcinoembryonic antigen: R. Klemenz, et al; *PNAS* **86**, 5708 (1989)

NEW IL-33, Soluble (human) (rec.)

BULK available

ALX-522-098-C010	10 µg
Produced in <i>E. coli</i> . Untagged human IL-33 (aa 112-270). SPECIFICITY: Binds to human ST2. BIOLOGICAL ACTIVITY: Activates a ST2-dependent NF- κ B pathway.	

NEW IL-33, Soluble (mouse) (rec.)

BULK available

ALX-522-101-C010	10 µg
Produced in <i>E. coli</i> . Untagged mouse IL-33 (aa 109-266). SPECIFICITY: Binds to mouse ST2. BIOLOGICAL ACTIVITY: Activates a ST2-dependent NF- κ B pathway.	

Product Highlights

Detection Set

IL-33, Soluble (human) Detection Set [For ELISA Application]

APO-54N-025-KI01	1 Set
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SENSITIVITY: 5pg/ml. APPLICATION: Quantitative determination of soluble human IL-33 in biological fluids.

ST2 [IL-33 Receptor]

NEW ST2 (mouse):Fc (human) (rec.)

ALX-522-107-C050	50 µg
Produced in CHO cells.	

NEW ST2 (human):Fc (human) (rec.)

ALX-201-367-C050	50 µg
Produced in HEK 293 cells.	



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