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Datasheet for 209-401-B50

IL-33 Antibody

Overview

Description:	Anti-Human IL-33 (RABBIT) Antibody - 209-401-B50
Item No.:	209-401-B50
Size:	100 µg
Applications:	WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	IL-33 (also known as Interleukin-33, Interleukin-1 family member 11, IL-1F11, nuclear factor from high endothelial venules and NF-HEV) is a cytokine that binds to and signals through IL1RL1/ST2 and its stimulation recruits MYD88, IRAK1, IRAK4, and TRAF6, followed by phosphorylation of MAPK3/ERK1 and/or MAPK1/ERK2, MAPK14, and MAPK8. IL-33 induces T helper type 2-associated cytokines. IL-33 is a secreted cytokine that is expressed at high levels in high endothelial venules found in tonsils, Peyer patches and mesenteric lymph nodes and is almost undetectable in placenta. The 31 kDa precursor is proteolytically converted to an 18 kDa mature form by CASP1. Anti-IL-33 antibody is ideal for investigators involved in Cardiovascular and Immunology research.
Synonyms:	rabbit anti-Interleukin-33 antibody, rabbit anti-IL-33 antibody, Interleukin-1 family member 11, IL-1F11, nuclear factor from high endothelial venules and NF-HEV
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	IL33
Reactivity:	Human
Immunogen Type:	Recombinant Protein

Immunogen:	This purified antibody was prepared from whole rabbit serum produced by repeated immunizations with full length recombinant human IL-33 protein.
Purity/Specificity:	This purified antibody has been heated to 56°C for 30 minutes. In ELISA and other immunoreactive assays, this antibody will recognize both native and recombinant human IL-33 in cell supernatants and certain body fluids. A control of similarly diluted normal rabbit IgG is recommended.
Relevant Links:	• UniProtKB - O95760 • NCBI - 15559209 • GeneID - 90865

Application Details

Tested Applications:	WB
Application Note:	This purified antibody has been tested in western blotting. Reactivity is also expected in ELISA, neutralizations, radioimmunoassay and immunohistochemistry. The endotoxin content is estimated to be <10 pg/µl by the LAL method. By western blot a band approximately 18 kDa in size corresponding to mature human IL-32α protein is expected in the appropriate cell lysate or extract. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:20,000 - 1:100,000
Neutralization:	1:400
WB:	1:500 - 1:2,000

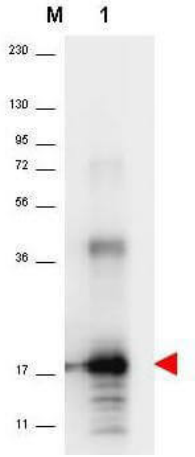
Formulation

Physical State:	Lyophilized
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	None
Stabilizer:	None
Reconstitution Volume:	100 µL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot
Western blot using Rockland's anti-Human IL-33 antibody shows detection of a band ~18 kDa in size corresponding to recombinant human IL-33 (lane 1). The identity of the higher molecular weight band is unknown. Molecular weight markers are also shown (M). After transfer, the membrane was blocked overnight with 3% BSA in TBS followed by reaction with primary antibody at a 1:1,000 dilution. Detection occurred using peroxidase conjugated anti-Rabbit IgG (p/n 611-103-122) secondary antibody diluted 1:40,000 in blocking buffer (p/n MB-070) for 30 min at RT followed by reaction with FemtoMax™ chemiluminescent substrate. Image was captured using VersaDoc™ MP 4000 imaging system (Bio-Rad).

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