

IL-33R (ST2) Monoclonal Antibody (RMST2-33), PE, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	RMST2-33
Conjugate	PE
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2572706

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	Assay-Dependent	4 Publications

Product Specific Information

Description: The RMST2-33 monoclonal antibody reacts with mouse ST2, also known as IL-33R or interleukin 1 receptor-like 1. ST2 is a member of the IL-1 receptor family. In the membrane-bound form, it consists of three extracellular immunoglobulin domains and an intracellular toll-interleukin-1 receptor domain. ST2 forms a dimer with IL-1R accessory protein in a ligand-dependent manner. IL-33/ST2 interaction induces the production of TH2 cytokines. ST2 also has a soluble isoform lacking transmembrane and intracellular toll-interleukin-1 receptor domains. It is believed that the soluble form functions as a decoy receptor that can block membrane bound IL-33/ST2 interaction. ST2 is expressed by TH2 lymphocytes, mast cells, eosinophils, basophils, innate lymphocytes, smooth muscle cells, and endothelial cells and is involved in host defense, allergy, and inflammation. IL-33/ST2 interaction has also been shown to be atheroprotective.

RMST2-33 has been reported to bind and activate ST2 in in vitro assays.

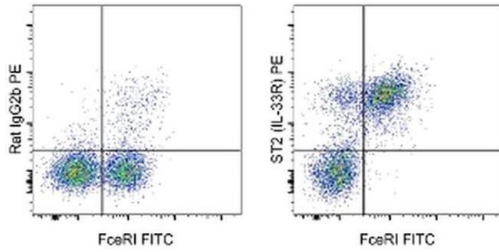
Applications Reported: This RMST2-33 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This RMST2-33 antibody has been tested by flow cytometric analysis of mouse bone marrow-derived mast cells.

Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For IL-33R (ST2) Monoclonal Antibody (RMST2-33), PE, eBioscience™



IL-33R (ST2) Antibody (12-9333-82) in Flow

Staining of mouse bone marrow-derived mast cells with Anti-Mouse Fc epsilon Receptor I alpha (FcεR1) FITC (Product # 11-5898-82) and 0.25 µg of Rat IgG2b K Isotype Control PE (Product # 12-4031-82) (left) or 0.25 µg of Anti-Mouse ST2 (IL-33R) PE (right). Viable cells, as determined by Fixable Viability Dye eFluor® 450, were used for analysis.

[View more figures on thermofisher.com](#)

4 References

Flow Cytometry (4)

Nature communications

Attenuation of TCR-induced transcription by Bach2 controls regulatory T cell differentiation and homeostasis.

"Published figure using IL-33R (ST2) monoclonal antibody (Product # 12-9333-82) in Flow Cytometry"

Authors: Sidwell T, Liao Y, Garnham AL, Vasanthakumar A, Gloury R, Blume J, Teh PP, Chisanga D, Thelemann C, de Labastida Rivera F, Engwerda CR, Corcoran L, Komietani K, Kurosaki T, Smyth GK, Shi W, Kallies A

Species

Not Applicable

Dilution

Not Cited

Year

2020

Nature communications

IL-33 drives group 2 innate lymphoid cell-mediated protection during Clostridium difficile infection.

"12-9333-82 was used in Flow Cytometry to identify potential therapeutic immune pathways that aid in recovery during infection with the hypervirulent strain of Clostridium difficile, R20291."

Authors: Frisbee AL, Saleh MM, Young MK, Leslie JL, Simpson ME, Abhyankar MM, Cowardin CA, Ma JZ, Pramoonjago P, Turner SD, Liou AP, Buonomo EL, Petri WA

Species

Mouse

Dilution

1:100

Year

2019

[View more Flow references on thermofisher.com](#)

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