

IL-33R (ST2) Monoclonal Antibody (RMST2-2), APC-eFluor™ 780, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), APC-eFluor™ 780, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	RMST2-2
Conjugate	APC-eFluor™ 780
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_2848379

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	4 Publications

Product Specific Information

Description: The RMST2-2 monoclonal antibody reacts with ST2, also known as IL-33 receptor (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 extra-cellular immunoglobulin domains and an intracellular toll-interleukin-1 receptor domain. ST2 forms a dimer with IL-1R accessory protein in a ligand-dependent manner. The 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. The IL-33/ST2 interaction has also been shown to be atheroprotective.

Applications Reported: This RMST2-2 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This RMST2-2 antibody has been tested by flow cytometric analysis of mouse bone marrow-derived mast cells. This may be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

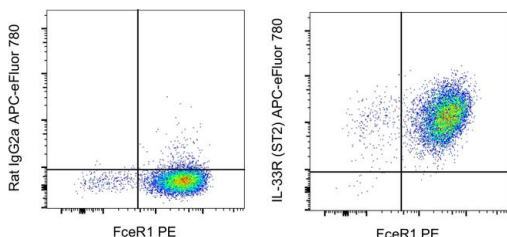
APC-eFluor 780 emits at 780 nm and is excited with the Red laser (633-647 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222-49) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-57) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 633-647 nm; Emission: 780 nm; Laser: Red Laser

Product Images For IL-33R (ST2) Monoclonal Antibody (RMST2-2), APC-eFluor™ 780, eBioscience™



IL-33R (ST2) Antibody (47-9335-82) in Flow

C57BL/6 mouse bone marrow-derived mast cells were stained with FceR1 alpha Monoclonal Antibody, PE (Product # 12-5898-82) and 0.25 µg of Rat IgG2a kappa Isotype Control, APC-eFluor 780 (Product # 47-4321-82) (left) or 0.25 µg of IL-33R (ST2) Monoclonal Antibody, APC-eFluor 780 (right). Total viable cells were used for analysis, as determined by 7-AAD (Product # 00-6993-50).

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

4 References

Flow Cytometry (4)

Cell reports

TNFR2 Signaling Enhances ILC2 Survival, Function, and Induction of Airway Hyperreactivity.

"Published figure using IL-33R (ST2) monoclonal antibody (Product # 47-9335-82) in Flow Cytometry"

Authors: Hurrell BP, Galle-Treger L, Jahani PS, Howard E, Helou DG, Banie H, Soroosh P, Akbari O

Species

Not Applicable

Dilution

Not Cited

Year

2019

Nature communications

Costimulation of type-2 innate lymphoid cells by GITR promotes effector function and ameliorates type 2 diabetes.

"Published figure using IL-33R (ST2) monoclonal antibody (Product # 47-9335-82) in Flow Cytometry"

Authors: Galle-Treger L, Sankaranarayanan I, Hurrell BP, Howard E, Lo R, Maazi H, Lewis G, Banie H, Epstein AL, Hu P, Rehan VK, Gilliland FD, Allayee H, Soroosh P, Sharpe AH, Akbari O

Species

Not Applicable

Dilution

Not Cited

Year

2019

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

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