

IL-33R (ST2) Monoclonal Antibody (RMST2-2), Super Bright™ 600, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Super Bright™ 600, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	RMST2-2
Conjugate	Super Bright™ 600
Excitation/Emission Max	414/601 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2717063

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	0.5 µg/test	3 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 can 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.

Super Bright 600 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 600 nm. We recommend using a 610/20 bandpass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

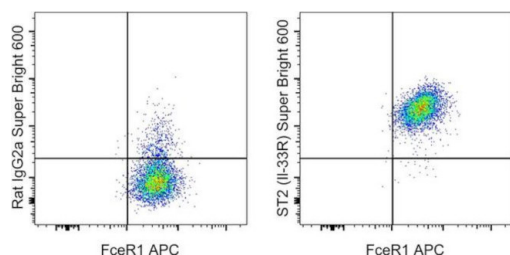
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 μ L of cell sample + 100 μ L of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333) 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: 405 nm; Emission: 600 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

Product Images For IL-33R (ST2) Monoclonal Antibody (RMST2-2), Super Bright™ 600, eBioscience™



IL-33R (ST2) Antibody (63-9335-82) in Flow

C57BL/6 mouse bone marrow-derived mast cells were stained with FceR1 Monoclonal Antibody, APC (Product # 17-5898-82) and 0.25 μ g of Rat IgG2a kappa Isotype Control, Super Bright 600 (Product # 63-4321-82) (left) or 0.25 μ g of IL-33R (ST2) Monoclonal Antibody, Super Bright 600 (right). Total viable cells were used for analysis, as determined by Fixable Viability Dye eFluor 506 (Product # 65-0866-18).

[View more figures on thermofisher.com](https://www.thermofisher.com)

4 References

Immunohistochemistry (1)

Human reproduction open

A 3D endometrial organotypic model simulating the acute inflammatory decidualisation initiation phase with epithelial induction of the key endometrial receptivity marker, integrin V3.

"Published figure using IL-33R (ST2) monoclonal antibody (Product # 63-9335-82) in Immunohistochemistry"

Authors: Fraser R,Smith R,Lin CJ

Year
2022

Flow Cytometry (3)

Nature communications

IL-33 induces thymic involution-associated naive T cell aging and impairs host control of severe infection.

"Published figure using IL-33R (ST2) monoclonal antibody (Product # 63-9335-82) in Flow Cytometry"

Authors: Xu L,Wei C,Chen Y,Wu Y,Shou X,Chen W,Lu D,Sun H,Li W,Yu B,Wang X,Zhang X,Yu Y,Lei Z,Tang R,Zhu J, Li Y,Lu L,Zhou H,Zhou S,Su C,Chen X

Year
2022

Cell reports

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

"Published figure using IL-33R (ST2) monoclonal antibody (Product # 63-9335-82) in Flow Cytometry"

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

Year
2019

[View more Flow references on thermofisher.com](https://www.thermofisher.com)

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