

# IL-33R (ST2) Monoclonal Antibody (RMST2-2), PE, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	RMST2-2
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_2572708

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.25 µg/test	7 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.

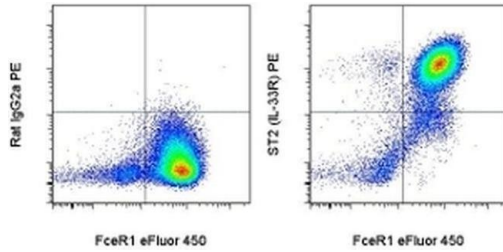
Applications Reported: This RMST2-2 antibody has been reported for use in flow cytometric analysis.

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 0.25 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 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

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 (RMST2-2), PE, eBioscience™



### IL-33R (ST2) Antibody (12-9335-82) in Flow

Staining of mouse bone marrow-derived mast cells with Anti-Mouse Fc epsilon Receptor I alpha (FceR1) eFluor® 450 (Product # 48-5898-82) and 0.125 µg of Rat IgG2a K Isotype Control PE (Product # 12-4321-80) (left) or 0.125 µg of Anti-Mouse ST2 (IL-33R) PE (right). Total viable cells, as determined by Fixable Viability Dye eFluor® 506, were used for analysis.

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### 7 References

#### Flow Cytometry (7)

##### PLoS pathogens

### Astrocytes promote a protective immune response to brain *Toxoplasma gondii* infection via IL-33-ST2 signaling.

"12-9335 was used in Flow cytometry/Cell sorting to show that IL-33 is expressed by oligodendrocytes and astrocytes during *T. gondii* infection, is released locally into the cerebrospinal fluid of *T. gondii*-infected animals, and is required for control of infection."

Authors: Still KM, Batista SJ, O'Brien CA, Oyesola OO, Früh SP, Webb LM, Smirnov I, Kovacs MA, Cowan MN, Hayes NW, Thompson JA, Tait Wojno ED, Harris TH

##### Species

Mouse

##### Dilution

Not Cited

##### Year

2020

##### Cell reports

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

"Published figure using IL-33R (ST2) monoclonal antibody (Product # 12-9335-82) 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

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