

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

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), APC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	RMST2-33
Conjugate	APC
Excitation/Emission Max	651/660 nm
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_2573299

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

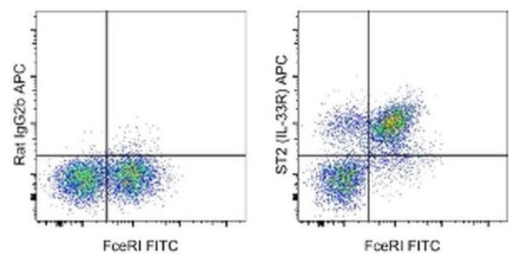
**Applications Reported:** This RMST2-33 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This RMST2-33 antibody has been tested by flow cytometric analysis of mouse bone marrow-derived mast cells. 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 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:** 633-647 nm; **Emission:** 660 nm; **Laser:** Red Laser.

**Filtration:** 0.2 µm post-manufacturing filtered.

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



**IL-33R (ST2) Antibody (17-9333-82) 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 APC (Product # 17-4031-82) (left) or 0.25 µg of Anti-Mouse ST2 (IL-33R) APC (right). Viable cells, as determined by Fixable Viability Dye eFluor® 450, were used for analysis.

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4 References

Flow Cytometry (4)

<p>Journal of neuroinflammation</p> <p><b>Brain endothelial CXCL12 attracts protective natural killer cells during ischemic stroke.</b></p> <p>"Published figure using IL-33R (ST2) monoclonal antibody (Product # 17-9333-82) in Flow Cytometry"</p> <p>Authors: Wang S,de Fabritus L,Kumar PA,Werner Y,Ma M,Li D,Siret C,Simic M,Li B,Kerdiles YM,Hou L,Stumm R,van de Pavert SA</p>	<p>Year 2023</p>
<p>Nature communications</p> <p><b>Maturation and specialization of group 2 innate lymphoid cells through the lung-gut axis.</b></p> <p>"Published figure using IL-33R (ST2) monoclonal antibody (Product # 17-9333-82) in Flow Cytometry"</p> <p>Authors: Zhao M,Shao F,Yu D,Zhang J,Liu Z,Ma J,Xia P,Wang S</p>	<p>Year 2022</p>

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