

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

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), APC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	RMST2-2
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_2573301

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	0.25 µg/test	13 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.

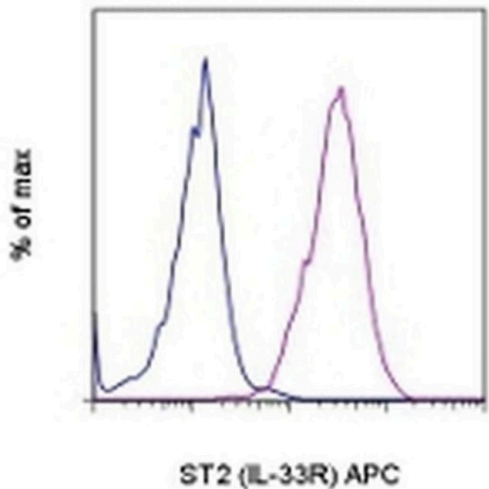
**Applications Reported:** This RMST2-2 antibody has been reported for use in flow cytometric analysis.

**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: 633-647 nm; Emission: 660 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

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



**IL-33R (ST2) Antibody (17-9335-82) in Flow**  
Staining of mouse bone marrow-derived mast cells with 0.125 µg of Rat IgG2a K Isotype Control APC (Product # 17-4321-81) (blue histogram) or 0.125 µg of Anti-Mouse ST2 (IL-33R) APC (purple histogram). Fc epsilon Receptor 1 alpha (FceRI)-positive cells (Product # 11-5898-82) were used for analysis.

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Immunohistochemistry (1)

Human reproduction open	Year 2022
<b>A 3D endometrial organotypic model simulating the acute inflammatory decidualisation initiation phase with epithelial induction of the key endometrial receptivity marker, integrin V3.</b>	Species Human
"Published figure using IL-33R (ST2) monoclonal antibody (Product # 17-9335-82) in Immunohistochemistry"	Dilution 1:100
Authors: Fraser R,Smith R,Lin CJ	

Immunocytochemistry (1)

Human reproduction open	Year 2022
<b>A 3D endometrial organotypic model simulating the acute inflammatory decidualisation initiation phase with epithelial induction of the key endometrial receptivity marker, integrin V3.</b>	Species Human
"Published figure using IL-33R (ST2) monoclonal antibody (Product # 17-9335-82) in Immunohistochemistry"	Dilution 1:100
Authors: Fraser R,Smith R,Lin CJ	

Flow Cytometry (13)

Nature communications	Year 2022
<b>IL-33 induces thymic involution-associated naive T cell aging and impairs host control of severe infection.</b>	
"Published figure using IL-33R (ST2) monoclonal antibody (Product # 17-9335-82) 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	

Cell	Year 2021
<b>Glioblastomas acquire myeloid-affiliated transcriptional programs via epigenetic immunoediting to elicit immune evasion.</b>	Species Mouse
"17-9335-82 was used in Flow Cytometry to conclude that epigenetic immunoediting may drive an acquired immune evasion program in the most aggressive mesenchymal GBM subtype by reshaping the tumor immune microenvironment."	
Authors: Gangoso E,Southgate B,Bradley L,Rus S,Galvez-Cancino F,McGivern N,Güç E,Kapourani CA,Byron A, Ferguson KM,Alfazema N,Morrison G,Grant V,Blin C,Sou I,Marques-Torrejón MA,Conde L,Parrinello S,Herrero J,Beck S,Brandner S,Brennan PM,Bertone P,Pollard JW,Quezada SA,Sprout D,Frame MC,Serrels A,Pollard SM	

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