

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

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Biotin, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	RMST2-2
Conjugate	Biotin
Form	Liquid
Concentration	0.5 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_2572811

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	0.5 µg/test	4 Publications

## Product Specific Information

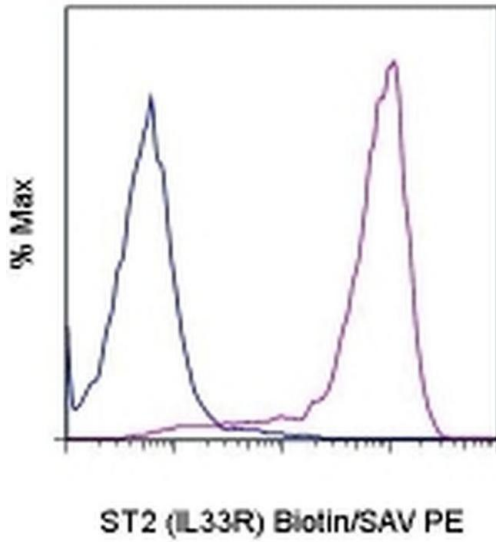
**Description:** The RMST2-2 monoclonal antibody reacts with ST2, also known as IL-33 receptor (IL-33R) or interleukin 1 receptor-like 1. ST2 is a member of the IL-1 receptor family. In the membrane-bound form, it consists of three extra-cellular immunoglobulin domains and an intracellular toll-interleukin-1 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 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.

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

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



### IL-33R (ST2) Antibody (13-9335-82) in Flow

Staining of mouse bone marrow-derived mast cells with 0.25  $\mu$ g of Rat IgG2a K Isotype Control Biotin (Product # 13-4321-82) (blue histogram) or 0.25  $\mu$ g of Anti-Mouse ST2 (IL-33R) Biotin (purple histogram) followed by Streptavidin PE (Product # 12-4317-87). Cells in the large scatter population were used for analysis.

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## Western Blot (1)

<p><b>Immunity</b></p> <p><b>HpARI Protein Secreted by a Helminth Parasite Suppresses Interleukin-33.</b></p> <p>"Published figure using IL-33R (ST2) monoclonal antibody (Product # 13-9335-82) in Western Blot"</p> <p>Authors: Osbourn M, Soares DC, Vacca F, Cohen ES, Scott IC, Gregory WF, Smyth DJ, Toivakka M, Kemter AM, le Bihan T, Wear M, Hoving D, Filbey KJ, Hewitson JP, Henderson H, González-Ciscar A, Errington C, Vermeren S, Astier AL, Wallace WA, Schwarze J, Ivens AC, Maizels RM, McSorley HJ</p>	<p><b>Species</b> Not Applicable</p> <p><b>Dilution</b> Not Cited</p> <p><b>Year</b> 2017</p>
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## Immunohistochemistry (1)

<p><b>Human reproduction open</b></p> <p><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></p> <p>"Published figure using IL-33R (ST2) monoclonal antibody (Product # 13-9335-82) in Immunohistochemistry"</p> <p>Authors: Fraser R, Smith R, Lin CJ</p>	<p><b>Species</b> Not Applicable</p> <p><b>Dilution</b> Not Cited</p> <p><b>Year</b> 2022</p>
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## Flow Cytometry (4)

<p><b>Cell reports</b></p> <p><b>TNFR2 Signaling Enhances ILC2 Survival, Function, and Induction of Airway Hyperreactivity.</b></p> <p>"Published figure using IL-33R (ST2) monoclonal antibody (Product # 13-9335-82) in Flow Cytometry"</p> <p>Authors: Hurrell BP, Galle-Treger L, Jahani PS, Howard E, Helou DG, Banie H, Soroosh P, Akbari O</p>	<p><b>Species</b> Not Applicable</p> <p><b>Dilution</b> Not Cited</p> <p><b>Year</b> 2019</p>
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<p><b>Nature communications</b></p> <p><b>Costimulation of type-2 innate lymphoid cells by GITR promotes effector function and ameliorates type 2 diabetes.</b></p> <p>"Published figure using IL-33R (ST2) monoclonal antibody (Product # 13-9335-82) in Flow Cytometry"</p> <p>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</p>	<p><b>Species</b> Not Applicable</p> <p><b>Dilution</b> Not Cited</p> <p><b>Year</b> 2019</p>
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