

# IL-33R (ST2) Monoclonal Antibody (hIL33Rcap), PerCP-eFluor™ 710, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PerCP-eFluor™ 710, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	hIL33Rcap
Conjugate	PerCP-eFluor™ 710
Excitation/Emission Max	482/708 nm
Immunogen	Extracellular domain of human IL-33R protein
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2762466

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	1 Publication

## Product Specific Information

**Description:** This hIL33Rcap monoclonal antibody recognizes human IL-33R, also known as ST2. This antibody binds both, the membrane bound form (ST2L) and the soluble form (ST2S). This antibody is suitable for both surface and intracellular staining.

This hIL33Rcap clone is also used as a capture antibody in the IL-33R (ST2) Human ProcartaPlex™ Simplex Kit (Product # EPX010-12231-901)

**Applications Reported:** This hIL33Rcap antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This hIL33Rcap antibody has been pre-diluted and tested by flow cytometric analysis of LAD2 cells. This may be used at 5 µL (0.125 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.

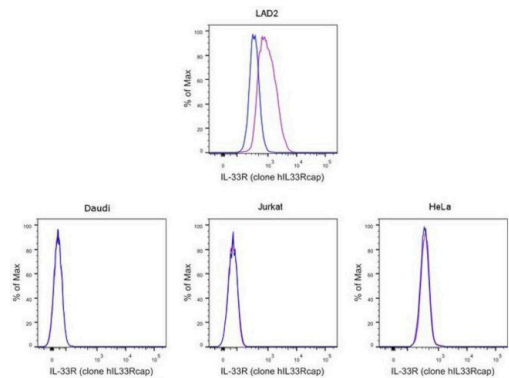
PerCP-eFluor™ 710 emits at 710 nm and is excited with the blue laser (488 nm); it can be used in place of PerCP-Cyanine5.5. We recommend using a 710/50 bandpass filter, however, the 695/40 bandpass filter is an acceptable alternative. Please make sure that your instrument is capable of detecting this fluorochrome.

**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 µL of cell sample + 100 µL 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.

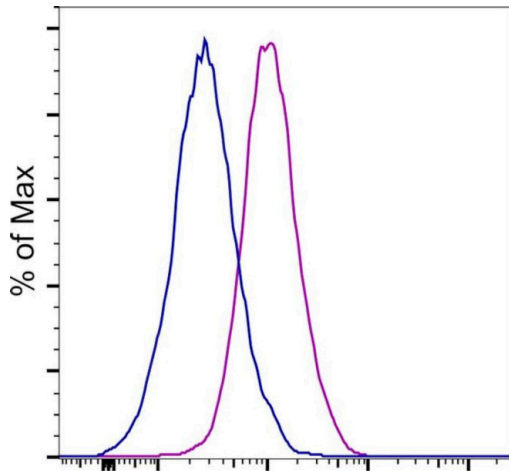
**Excitation:** 488 nm; **Emission:** 710 nm; **Laser:** Blue Laser

**Product Images For IL-33R (ST2) Monoclonal Antibody (hIL33Rcap), PerCP-eFluor™ 710, eBioscience™**



**IL-33R (ST2) Antibody (46-9338-42)**

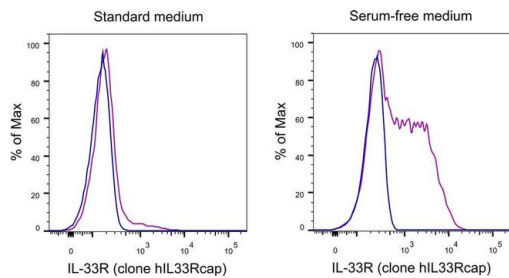
Staining of four indicated cell lines. As expected based on known expression of human IL-33R (ST-2) by LAD2 human mast cell line, clone hIL33Rcap stains LAD2 cells but not Daudi, Jurkat and HeLa cells. Details: The indicated cell lines were Fc blocked and stained with either mouse IgG1 isotype (blue histograms), or IL-33R (ST-2, clone hIL33Rcap). Viable cells were used for analysis. {RE}



**IL-33R (ST2) Antibody (46-9338-42) in Flow**

LAD2 cells were stained with Mouse IgG1 kappa Isotype Control, PerCP-eFluor 710 (Product # 46-4714-82) (blue histogram) or IL-33R (ST2) Monoclonal Antibody, PerCP-eFluor 710 (purple histogram). Total viable cells were used for analysis, as determined by Fixable Viability Dye eFluor 450 (Product # 65-0863-18).

IL-33R (ST2) PerCP-eFluor 710



**IL-33R (ST2) Antibody (46-9338-42)**

Staining of KU812 cells cultured in either standard (left panel) or serum-free conditions (right panel). As expected based on reports showing that KU812 cells mature under serum-free conditions, clone hIL33Rcap stains a significant fraction of cells cultured in serum-free medium, but hardly any KU812 cells cultured in standard conditions. Details: KU812 human basophil cell line was cultured either in standard conditions (RPMI1640 with 10% Fetal Bovine Serum) or in serum-free conditions (Hybridoma-SFM Medium, Gibco, Product # 12045084). The cells were stained with either IgG1 isotype (blue histograms), or IL-33R (ST-2, clone hIL33Rcap). Viable cells were used for analysis. {TM}

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Flow Cytometry (1)

Nature immunology	Year 2021
Dichotomous metabolic networks govern human ILC2 proliferation and function.	
"Published figure using IL-33R (ST2) monoclonal antibody (Product # 46-9338-42) in Flow Cytometry"	
Authors: Surace L,Doisne JM,Croft CA,Thaller A,Escoll P,Marie S,Petrosemoli N,Guillemot V,Dardalhon V,Topazio D,Cama A,Buchrieser C,Taylor N,Amit I,Musumeci O,Di Santo JP	

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