

Brilliant Violet 605™ anti-mouse IL-33Rα (IL1RL1, ST2)

Catalog # / Size: 1326615 / 50 µg

Clone: DIH9

Isotype: Rat IgG2a, κ

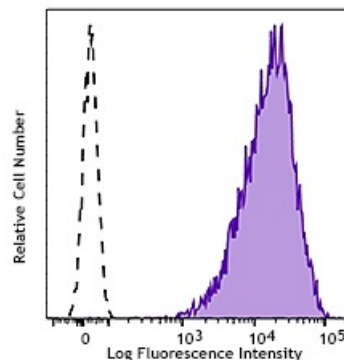
Immunogen: IL-33Rα-hFcγ1 fusion protein.

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 605™ under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)

Concentration: 0.2 mg/mL



Mouse Th2 clone D10.G4.1 was stained with anti-mouse IL-33Rα (IL1RL1, ST2) (clone DIH9) Brilliant Violet 605™ (filled histogram) or rat IgG2a, κ Brilliant Violet 605™ isotype control (open histogram).

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 0.5 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 605™ excites at 405 nm and emits at 603 nm. The bandpass filter 610/20 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 605™ is a trademark of Sirigen Group Ltd.

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Application References: 1. Hashiguchi M, et al. 2014. *Eur. J. Immunology*. (FC) [PubMed](#)

Description: IL-33R α , also known as ST2 or IL-1RL1, is a member of the Toll/IL-1 receptor family. It binds IL-33 and is structurally similar to IL-1R1. Two forms of the protein exist - a soluble form known as ST2 and a membrane anchored form known as ST2L. The membrane form is expressed by Th2 cells and bone marrow derived mast cells, whereas the soluble form is expressed by serum-stimulated fibroblasts.

Blocking with anti-ST2 antibodies has been shown to alleviate experimental arthritis and airway inflammation. The IL-33-ST2 axis has been reported to be important across a range of diseases including asthma, allergies, and cardiac disease.

- Antigen**
- References:**
1. Yanagisawa K, *et al.* 1993. *FEBS Lett.* 318:83.
 2. Schmitt E, *et al.* 1990. *Cytokine* 6:407.
 3. Yanagisawa K, *et al.* 1992. *FEBS Lett.* 302:51.
 4. Takagi T, *et al.* 1993. *Biochim Biophys Acta.* 1178:194.