

Brilliant Violet 605™ anti-human CD294 (CRTH2)

Catalog # / Size: 2350610 / 100 tests
2350605 / 25 tests

Clone: BM16

Isotype: Rat IgG2a, κ

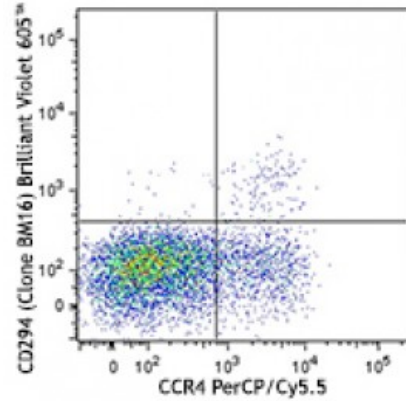
Immunogen: Rat cell line TART/B19-12.10 transfected with human CRTH2

Reactivity: Human

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

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

Concentration: Lot-specific

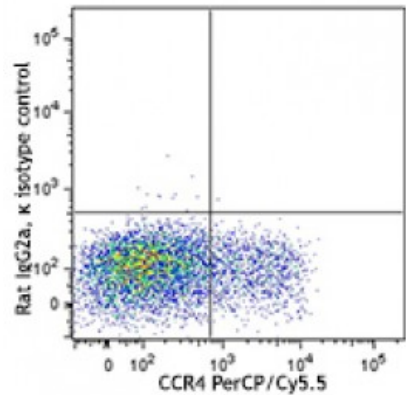


Human peripheral blood lymphocytes were stained with CD4 APC, CCR4 PerCP/Cy5.5, and CD294 (Clone BM16) Brilliant Violet 605™ (top) or rat IgG2a, κ Brilliant Violet 605™ isotype control (bottom). Data shown was gated on the CD4⁺

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 ≤5 microL per million cells or 5 microL per 100 microL of whole blood. 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 Notes: This product is sold under license agreement with BML, Inc for research use only.

Application References:

1. Nagata K, *et al.* 1999. *J. Immunol.* 162:1278. (FC)
2. De Fanis U, *et al.* 2007. *Blood* 109:4343. (FC)
3. Tsuda H, *et al.* 2001. *Clin. Exp. Immunol.* 123:105. (FC)
4. Hamada K, *et al.* 2004. *Allergology International* 53:179. (FC)

Description: CD294, also known as CRTH2, is a seven-transmembrane protein coupled with heterotrimeric G proteins. CRTH2 is the prostaglandin D2 receptor and is expressed by Th2 cells, eosinophils, and basophils. CD294 prevents the apoptosis of Th2 cells and mediates the chemotaxis of CRTH2 expressing cells to the sites of allergic inflammation, such as the asthmatic lung.

Antigen References:

1. Luster AD and Tager AM. 2004. *Nat. Rev. Immunol.* 4:711.
2. Monneret G, *et al.* 2001. *Blood* 98:1942.
3. Xue L, *et al.* 2009. *J. Immunol.* 182:7580.
4. Schratl P, *et al.* 2007. *J. Immunol.* 179:4792.