

APC/Fire™ 750 anti-human CD294 (CRTH2)

Catalog # / Size: 2350670 / 100 tests
2350665 / 25 tests

Clone: BM16

Isotype: Rat IgG2a, κ

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

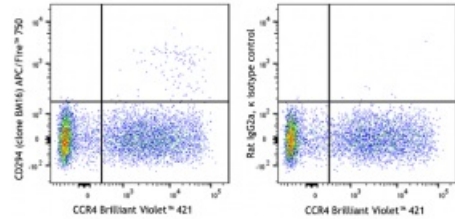
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with APC/Fire™ 750 under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA)

Workshop Number: 700 under optimal conditions.

Concentration: Lot-specific

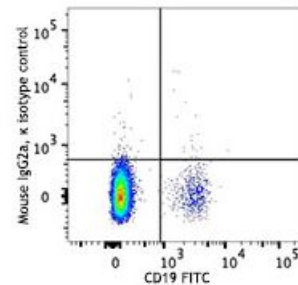


Human peripheral blood lymphocytes were stained with anti-human CD4 FITC, anti-human CCR4 Brilliant Violet™ 421, and anti-human CD294 (CRTH2) (clone BM16) APC/Fire™ 750 (left) or rat IgG2a, κ APC/Fire™ 750 isotype control (right). Dot plots were gated on CD4⁺ cell population.

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 μL per million cells in 100 μL staining volume or 5 μL per 100 μL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.



* APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum emission of 787 nm.

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. *Allergy 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.