

**PE/Cy7 anti-human CD294 (CRTH2)**

**Catalog # / Size:** 2350585 / 25 tests  
2350590 / 100 tests

**Clone:** BM16

**Isotype:** Rat IgG2a, κ

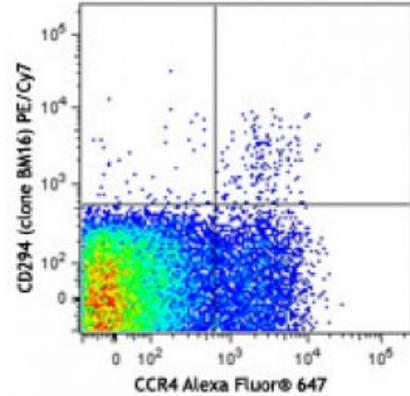
**Immunogen:** Rat cell line TART/B19-12.10 transfected with human CRTH2

**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography and conjugated with PE/Cy7 under optimal conditions. The solution is free of unconjugated PE/Cy7 and unconjugated antibody.

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

**Concentration:** Lot-specific



Human peripheral blood lymphocytes were stained with CD4 Pacific Blue™, CCR4 Alexa Fluor® 647 and CD294 (clone BM16) PE/Cy7 (top) or rat IgG2a, κ PE/Cy7 isotype control (bottom). Data shown was gated on the CD4<sup>+</sup> cell population.

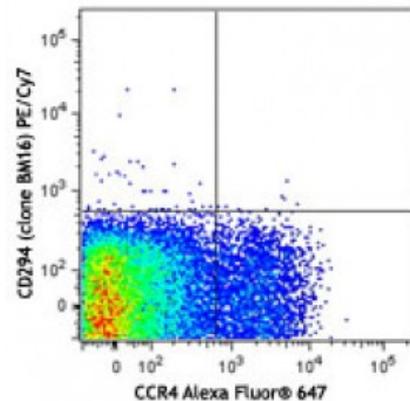
**Applications:**

**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 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.

**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.