

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

**Catalog # / Size:** 2350525 / 25 tests  
2350530 / 100 tests

**Clone:** BM16

**Isotype:** Rat IgG2a, κ

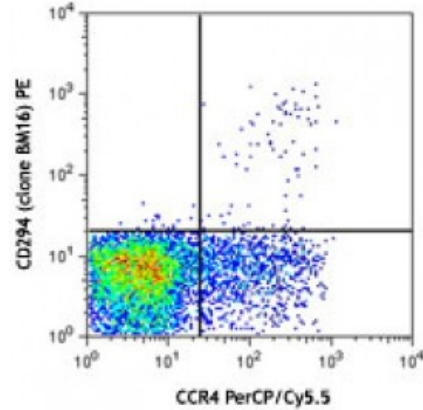
**Immunogen:** Rat cell line TART/B19-12.10 transfected with human CRTH2

**Reactivity:** Human

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

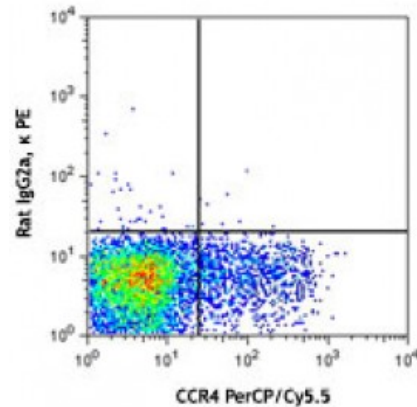


Human peripheral blood lymphocytes were stained with CD4 APC, CCR4 PerCP/Cy5.5, and CD294 (clone BM16) PE (top) or rat IgG2a, κ PE isotype control (bottom). Data shown was gated on the CD4<sup>+</sup> cell population.

**Applications:**

**Applications:** Flow Cytometry

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 microL to 5 microL per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 microL staining volume or 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)
  5. Ohue Y, *et al.* 2014. *Clin Cancer Res.* 20:5052. [PubMed](#)
  6. Marafini I, *et al.* 2015. *PLoS One*.10:126291. [PubMed](#)

**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.