

**Pacific Blue™ anti-human CD294 (CRTH2)**

**Catalog # /** 2350645 / 25 tests  
**Size:** 2350650 / 100 tests

**Clone:** BM16

**Isotype:** Rat IgG2a,  $\kappa$

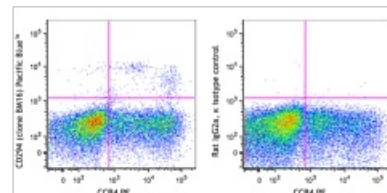
**Immunogen:** Rat cell line TART/B19-12.10  
transfected with human CRTH2

**Reactivity:** Human

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

**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 CD194 (CCR4) PE, and CD294 (clone BM16) Pacific Blue™ (left) or rat IgG2a,  $\kappa$  Pacific Blue™ isotype control (right).

**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  $\mu$ l per million cells or 5  $\mu$ l per 100  $\mu$ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

\* Pacific Blue™ has a maximum emission of 455 nm when it is excited at 405 nm. Prior to using Pacific Blue™ conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.

**Application Notes:** This product is sold under license agreement with BML, Inc for research use only.

**Application 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.

**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.