SONY

Product Data Sheet

APC/Cyanine7 anti-human CD294 (CRTH2)

Catalog # / Size: 2350565 / 25 tests
2350570 / 100 tests

Clone: BM16

Isotype: Rat IgG2a, κ

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

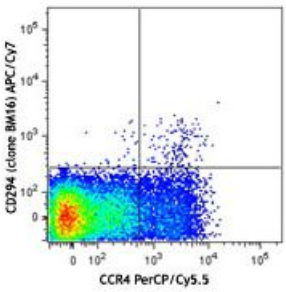
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with APC/Cyanine7 under optimal conditions.

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

Workshop Number: IV T-164

Concentration: Lot-specific



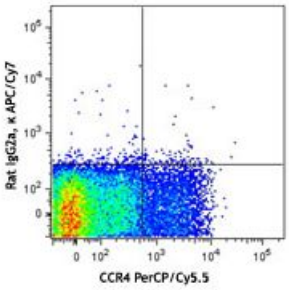
Human peripheral blood lymphocytes were stained with CD4 Pacific Blue™, CCR4 PerCP/Cy5.5 and CD294 (clone BM16) APC/Cy7 (top) or rat IgG2a, κAPC/Cy7 isotype control (bottom). Data shown was gated on the $CD4^+$ cell population.

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 or 5 µl per 100 µl 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.

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