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## 30-2909: Anti-Hu CD294 APC Mab (BM16)

Clonality: Monoclonal

 Clone Name :
 BM16

 Application :
 FACS

 Reactivity :
 Human

 Conjugate :
 APC

 Gene :
 PTGDR2

 Gene ID :
 11251

 Uniprot ID :
 Q9Y5Y4

Alternative Name: DP2, PTGDR2, DL1R, CRTH2, GPR44

**Isotype:** Rat IgG2a

Immunogen Information: Human CD294 transfected rat cell line TART/B19-12.10

## **Description**

Specifity: The rat monoclonal antibody BM16 recognizes an extracellular epitope of CD294 / CRTH2 (prostaglandin D2 receptor 2), a G-protein-coupled seven-transmembrane protein expressed on Th2 cells, peripheral blood basophils and eosinophils.

CD294 (prostaglandin D2 receptor 2) is a G-protein-coupled receptor that is preferentially expressed in CD4+ effector T helper 2 (Th2) cells, but also on eosinophils and basophils. It mediates the pro-inflammatory chemotaxis of eosinophils, basophils, and Th2 lymphocytes generated during allergic inflammation. Single nucleotide polymorphisms in the 3' UTR of CD294 gene have been associated with asthma susceptibility. Outside the immune system CD294 is expressed e.g. in gut, heart, and brain. The intracellular C terminal tail contains sites for phosphorylation by protein kinase C.

## **Product Info**

Amount: 100 Tests

Purification:

Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions

and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Content: Storage Buffer: Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide

**Storage condition:** Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

## **Application Note**

Flow cytometry: The reagent is designed for analysis of human blood cells using 10  $\mu$ l reagent / 100  $\mu$ l of whole blood or 10 $^6$  cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.



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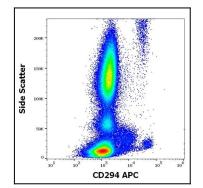


Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD294 (BM16) APC antibody (10  $\mu$ l reagent / 100  $\mu$ l of peripheral whole blood).

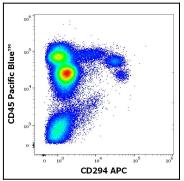


Figure 2: low cytometry multicolor surface staining pattern of human blood sample using anti-human CD294 (BM16) APC antibody (10  $\mu$ l reagent / 100  $\mu$ l of peripheral whole blood) and anti-human CD45 (MEM-28) Pacific Blue<sup>TM</sup> antibody (4  $\mu$ l reagent / 100  $\mu$ l of peripheral whole blood).

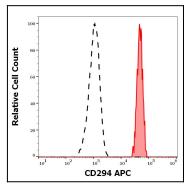


Figure 3: Separation of human basophil granulocytes (red-filled) from CD294 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD294 (BM16) APC antibody (10  $\mu$ l reagent / 100  $\mu$ l of peripheral whole blood).