

### 30-2810: Anti-Hu CD294 Purified

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|--------------------------------|---|
| <b>Clonality :</b>             | Monoclonal  |
| <b>Clone Name :</b>            | BM16  |
| <b>Application :</b>           | FACS  |
| <b>Reactivity :</b>            | Human   |
| <b>Gene :</b>                  | PTGDR2  |
| <b>Gene ID :</b>               | 11251   |
| <b>Uniprot ID :</b>            | Q9Y5Y4  |
| <b>Format :</b>                | Purified  |
| <b>Alternative Name :</b>      | prostaglandin D2 receptor 2 DP2, PTGDR2, DL1R, CRTH2, GPR44 |
| <b>Immunogen Information :</b> | Human CD294 transfected rat cell line TART/B19-12.10        |

#### Description

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.

**Specificity :** 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.

#### Product Info

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|----------------------------|---|
| <b>Amount :</b>            | 0.1 mg  |
| <b>Purification :</b>      | Purified by protein-G affinity chromatography.  |
| <b>Content :</b>           | Concentration: 1 mg/ml<br>Storage Buffer: Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide |
| <b>Storage condition :</b> | Store at 2-8°C. Do not freeze.  |

#### Application Note

Flow cytometry: Recommended dilution: 1-4  $\mu\text{g/ml}$ .