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Datasheet for ABIN7505893

anti-Prostaglandin D2 Receptor 2 (PTGDR2) antibody

2 Images

Overview

| | |
|--------------|--------------------------------------|
| Quantity: | 0.1 mg |
| Target: | Prostaglandin D2 Receptor 2 (PTGDR2) |
| Reactivity: | Human |
| Host: | Rat |
| Clonality: | Monoclonal |
| Conjugate: | Un-conjugated |
| Application: | Flow Cytometry (FACS) |

Product Details

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|---------------|--|
| Purpose: | Anti-Hu CD294 Purified |
| Immunogen: | Human CD294 transfected rat cell line TART/B19-12.10 |
| Clone: | BM16 |
| Isotype: | IgG2a |
| 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. |
| Purification: | Purified by protein-G affinity chromatography. |

Target Details

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|---------|--------------------------------------|
| Target: | Prostaglandin D2 Receptor 2 (PTGDR2) |
|---------|--------------------------------------|

Target Details

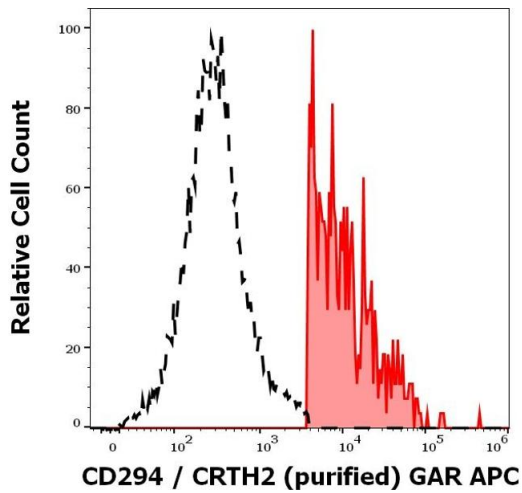
| | |
|-------------------|--|
| Alternative Name: | CD294 (PTGDR2 Products) |
| Background: | Prostaglandin D2 receptor 2,CD294 (prostaglandin D2 receptor 2) is a G-protein-coupled receptor that is preferentially expressed in CD4+ effector T helper 2 (Th2) cells, but also on eosinophils and basophils. 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.,DP2, PTGDR2, DL1R, CRTH2, GPR44 |
| Gene ID: | 11251 |
| UniProt: | Q9Y5Y4 |
| Pathways: | Regulation of G-Protein Coupled Receptor Protein Signaling |

Application Details

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| Application Notes: | Flow cytometry: Recommended dilution: 1-4 µg/mL. |
| Restrictions: | For Research Use only |

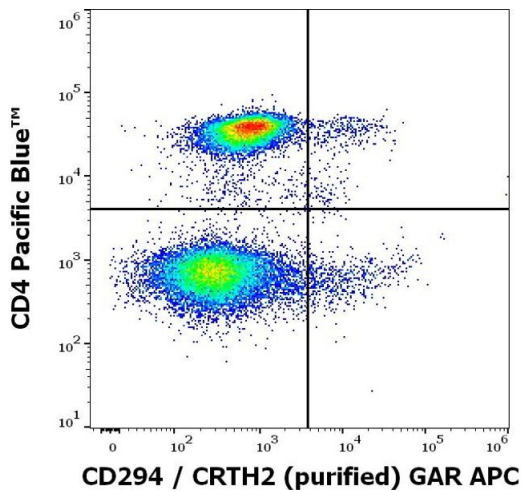
Handling

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|--------------------|--|
| Concentration: | 1 mg/mL |
| Buffer: | Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | 4 °C |
| Storage Comment: | Store at 2-8°C. Do not freeze. |



Flow Cytometry

Image 1. Separation of human CD294 positive lymphocytes (red-filled) from CD294 negative lymphocytes in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD294/CRTH2 (BM16) purified antibody (concentration in sample 5,0 μ g/mL, GAR APC).



Flow Cytometry

Image 2. Flow cytometry multicolor surface staining of human lymphocytes stained using anti-human CD294/CRTH2 (BM16) purified antibody (concentration in sample 5,0 μ g/mL, GAR APC) and anti-human CD4 (MEM-241) Pacific Blue antibody (4 μ L reagent / 100 μ L of peripheral whole blood).