

Datasheet for ABIN7505895

anti-Prostaglandin D2 Receptor 2 (PTGDR2) antibody (PE)[Go to Product page](#)**3** Images

Overview

Quantity:	100 tests
Target:	Prostaglandin D2 Receptor 2 (PTGDR2)
Reactivity:	Human
Host:	Rat
Clonality:	Monoclonal
Conjugate:	PE
Application:	Flow Cytometry (FACS)

Product Details

Purpose:	Anti-Hu CD294 PE
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 antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	Prostaglandin D2 Receptor 2 (PTGDR2)
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Target Details

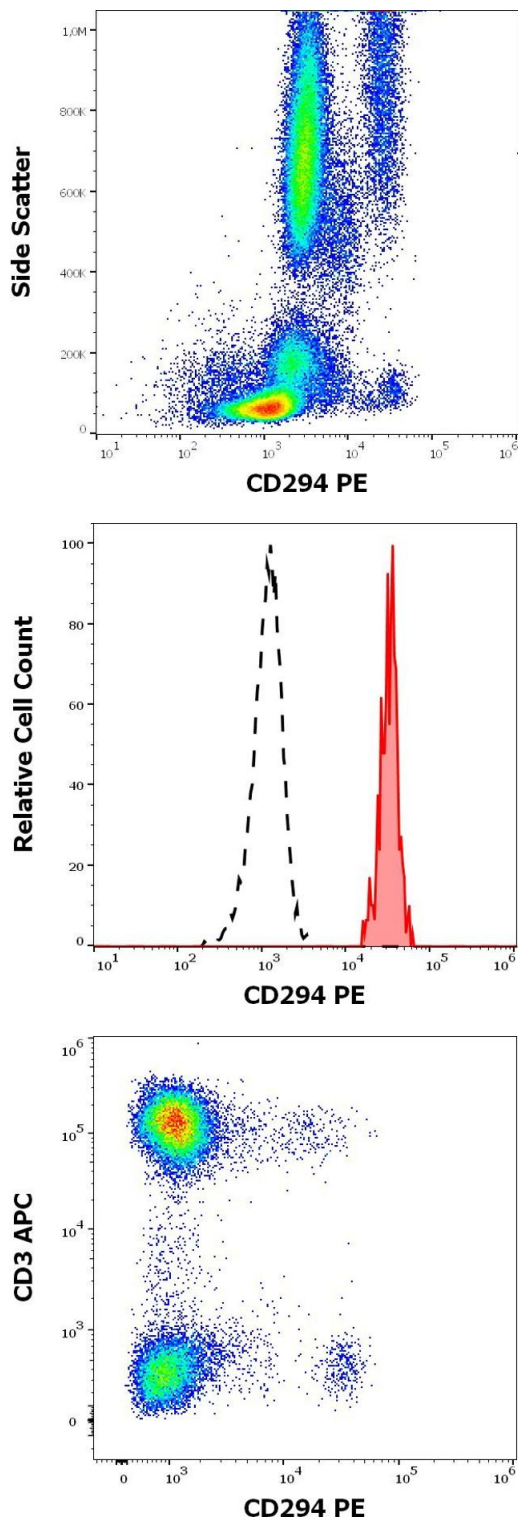
Alternative Name:	CD294 (PTGDR2 Products)
Background:	Prostaglandin D2 receptor 2,CD294 (prostaglandin D2 receptor 2) is a G-protein-coupled receptor that is preferentially expressed in CD4+ effector T helper 2 (Th2) cells, but also on eosinophils and basophils. It mediates the pro-inflammatory chemotaxis 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

Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µL reagent / 100 µL of whole blood or 10 ⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
Restrictions:	For Research Use only

Handling

Buffer:	Stabilizing 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. Protect from prolonged exposure to light. Do not freeze.



Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD294 (BM16) PE antibody (10 µL reagent / 100 µL of peripheral whole blood).

Flow Cytometry

Image 2. Separation of human CD294 positive basophils (red-filled) from CD3 positive CD294 negative T cells (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD294 (BM16) PE antibody (10 µL reagent / 100 µL of peripheral whole blood).

Flow Cytometry

Image 3. Flow cytometry multicolor surface staining of human gated lymphocytes and basophils stained using anti-human CD3 (UCHT1) APC antibody (10 µL reagent / 100 µL of peripheral whole blood) and anti-human CD294 (BM16) PE antibody (10 µL reagent / 100 µL of peripheral whole blood).