abcam

**ab328517**

# PE Anti-CD294 antibody [BM16]

## Key facts

| | |
|---|---|
| **Isotype** | IgG2a |
| **Host species** | Rat |
| **Conjugation** | PE |
| **Excitation/Emission** | Ex: 480;565nm, Em: 578nm |
| **Storage buffer** | pH: 7.4 Preservative: 0.1% Sodium azide Constituents: PBS, 0.2% BSA |
| **Form** | Liquid |
| **Clonality** | Monoclonal |
| **Immunogen** | Human CD294 transfected rat cell line TART/B19-12.10. Database link Q9Y5Y4 |
| **Clone number** | BM16 |
| **Purification technique** | Size-exclusion chromatography |
| **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. |

## Reactivity data

## Flow Cyt

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | - |

| | |
|---|---|
| **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. |

## Target data

See full target information PTGDR2

| | |
|---|---|
| **Function** | Receptor for prostaglandin D2 (PGD2). Coupled to the G(i)-protein. Receptor activation may result in pertussis toxin-sensitive decreases in cAMP levels and Ca(2+) mobilization. PI3K signaling is also implicated in mediating PTGDR2 effects. PGD2 induced receptor internalization. CRTH2 internalization can be regulated by diverse kinases such as, PKC, PKA, GRK2, GPRK5/GRK5 and GRK6. Receptor activation is responsible, at least in part, in immune regulation and allergic/inflammation responses. |

## Storage

| | |
|---|---|
| **Shipped at conditions** | Ambient - Can Ship with Ice |
| **Appropriate short-term storage conditions** | +4°C |
| **Appropriate long-term storage conditions** | +4°C |
| **Storage information** | Do Not Freeze |

## Product promise

**Tested**

We have tested this species and application combination and it works. It is covered by our product promise.

**Expected**

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

**Predicted**

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

**Not recommended**

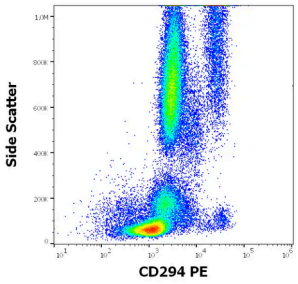
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

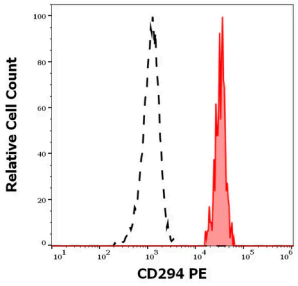
## 3 product images




### Flow Cytometry - PE Anti-CD294 antibody [BM16] (ab328517)

CD294 Flow Cytometry staining of Human peripheral whole blood using rat Anti-CD294 antibody

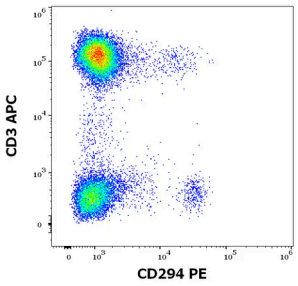
Flow cytometry surface staining pattern of human peripheral whole blood stained using ab328517 (10 µl reagent / 100 µl of peripheral whole blood).




### Flow Cytometry - PE Anti-CD294 antibody [BM16] (ab328517)

CD294 Flow Cytometry staining of Human peripheral whole blood using rat Anti-CD294 antibody

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 ab328517 (10 µl reagent / 100 µl of peripheral whole blood).




### Flow Cytometry - PE Anti-CD294 antibody [BM16] (ab328517)

CD294 Flow Cytometry staining of Human gated lymphocytes and basophils using rat Anti-CD294 antibody

Flow cytometry multicolor surface staining of human gated lymphocytes and basophils stained using ab328517 (10 µl reagent / 100 µl of peripheral whole blood) and anti-human CD294 PE antibody (10 µl reagent / 100 µl of peripheral whole blood).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.