abcam

ab328518

Alexa Fluor® 488 Anti-CD294 antibody [BM16]

Key facts

Isotype	IgG2a
Host species	Rat
Conjugation	Alexa Fluor® 488
Excitation/Emission	Ex: 495nm, Em: 519nm
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 4 µl reagent / 100 µl of whole blood or 10^6 cells in a suspension. The content of a vial (0.4 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

Notes

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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.

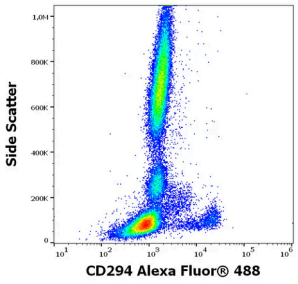
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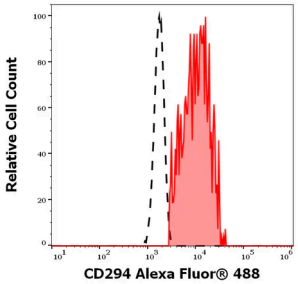
3 product images



Flow Cytometry - Alexa Fluor® 488 Anti-CD294 antibody [BM16] (ab328518)

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

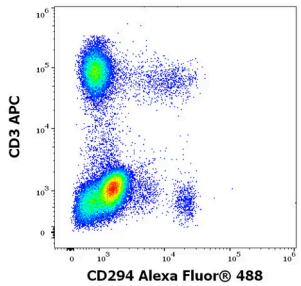
Flow cytometry surface staining pattern of human peripheral whole blood stained using ab328518 (4 µl reagent / 100 µl of peripheral whole blood).



Flow Cytometry - Alexa Fluor® 488 Anti-CD294 antibody [BM16] (ab328518)

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

Separation of human CD294 positive T cells (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using ab328518 (4 µl reagent / 100 µl of peripheral whole blood).



Flow Cytometry - Alexa Fluor® 488 Anti-CD294 antibody [BM16] (ab328518)

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

Flow cytometry multicolor surface staining of human lymphocytes stained using ab328518 (4 µl reagent / 100 µl of peripheral whole blood) and anti-human CD3 APC antibody (10 µl reagent / 100 µl of peripheral whole blood).

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