

PE/Dazzle™ 594 anti-human CD203c (E-NPP3)

Catalog # / Size: 2223120 / 100 tests
2223115 / 25 tests

Clone: NP4D6

Isotype: Mouse IgG1, κ

Immunogen: HEK-293 cells transfected with human E-NPP3

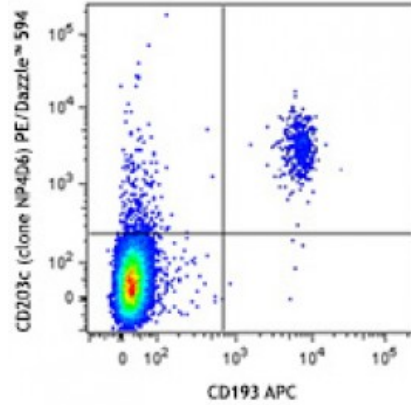
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with PE/Dazzle™ 594 under optimal conditions. The solution is free of unconjugated PE/Dazzle™ 594 and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Workshop Number: HLDA8

Concentration: Lot-specific

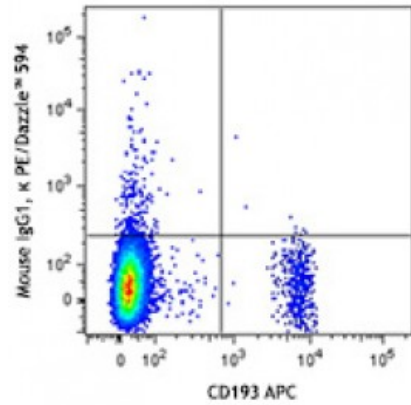


Human peripheral blood lymphocytes were stained with CD193 APC and CD203c (clone NP4D6) PE/Dazzle™ 594 (top) or mouse IgG1, κ PE/Dazzle™ 594 isotype control (bottom).

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.



* PE/Dazzle™ 594 has a maximum excitation of 566 nm and a maximum emission of 610 nm.

Application References:

1. Bühring HJ, *et al.* 1999. *Blood* 94:2343.
2. Bühring HJ, *et al.* 2001. *Blood* 97:3303.
3. Platz IJ, *et al.* 2001. *Int. Arch. Allergy Immunol.* 126:335.
4. Charles N, *et al.* 2010. *Nat. Med.* 16:701. (FC) [PubMed](#)
5. Gernez Y, *et al.* 2011. *Int. Arch. Allergy Immunol.* 154:318. (FC) [PubMed](#)

Description: CD203c, a transmembrane protein and a member of the ectoenzyme family, is involved in the hydrolysis of extracellular oligonucleotides, nucleoside phosphates, and NAD (possesses ATPase and ATP pyrophosphatase activity). The molecular weight of CD203c is between 130 and 150 kD under reducing conditions and 270 kD under non-reducing conditions. CD203c is expressed on basophils and mast cells, and is highly expressed on activated basophils.

Secretory glands in endometrium and glioma cells are also positive. CD203c is a multifunctional ectoenzyme involved in the clearance of extracellular nucleotides whose substrates include nucleoside triphosphates, nucleoside diphosphates, cAMP, and NAD.

- Antigen**
References:
1. Yano Y, *et al.* 2003. *Int. J. Mol. Med.* 12:763.
 2. Andoh K, *et al.* 1999. *Biochim. Biophys. Acta.* 1446:213.