

ARG54291 anti-CD203c / E-NPP3 antibody [NP4D6] (PE)

Package: 50 tests
Store at: 4°C

Summary

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| Product Description | PE-conjugated Mouse Monoclonal antibody [NP4D6] recognizes CD203c |
| Tested Reactivity | Hu |
| Tested Application | FACS, ICC/IF |
| Specificity | The mouse monoclonal antibody NP4D6 reacts with CD203c, a transmembrane ectoenzyme expressed on basophils and mast cells, and overexpressed upon their activation. HLDA VIII |
| Host | Mouse |
| Clonality | Monoclonal |
| Clone | NP4D6 |
| Isotype | IgG1 |
| Target Name | CD203c / E-NPP3 |
| Species | Human |
| Immunogen | HEK-293 cells transfected with human CD203c_x000D_ |
| Conjugation | PE |
| Alternate Names | Ectonucleotide pyrophosphatase/phosphodiesterase family member 3; PDNP3; NPPase; EC 3.6.1.9; EC 3.1.4.1; PD-Ibeta; PD-IBETA; NPP3; B10; CD antigen CD203c; Phosphodiesterase I beta; E-NPP 3; Phosphodiesterase I/nucleotide pyrophosphatase 3; CD203c |

Application Instructions

| Application table | Application | Dilution |
|-------------------|--|--|
| | FACS | 20 µl / 100 µl of whole blood or 10 ⁶ cells |
| | ICC/IF | Assay-dependent |
| Application Note | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. | |

Properties

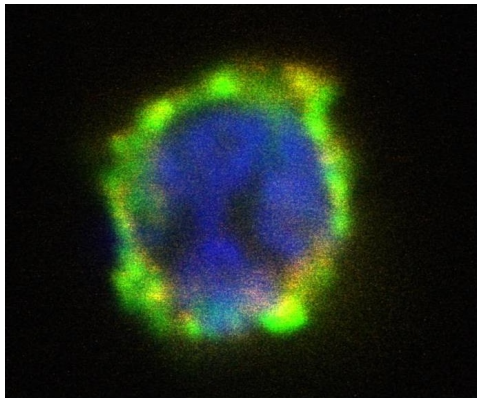
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|-------------------|---|
| Form | Liquid |
| Purification Note | The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary. |
| Buffer | PBS, 15 mM Sodium azide and 0.2% (w/v) high-grade protease free BSA |
| Preservative | 15 mM Sodium azide |
| Stabilizer | 0.2% (w/v) high-grade protease free BSA |

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| Storage instruction | Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |

Bioinformation

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| Database links | GeneID: 5169 Human Swiss-port # O14638 Human |
| Gene Symbol | ENPP3 |
| Gene Full Name | ectonucleotide pyrophosphatase/phosphodiesterase 3 |
| Background | CD203c, also known as ENPP-3, is integral membrane ectoenzyme (ectonucleotide pyrophosphatase/phosphodiesterase 3), that hydrolyses nucleotide triphosphates and thus modulates purinergic signaling. CD203c is expressed mainly on activated basophils and mast cells. CD203c is upregulated in response to IgE-receptor cross-linking and is overexpressed on neoplastic mast cells in patients with systemic mastocytosis. Measurement of its induced enhancement on the plasma membrane is useful for diagnostics of allergies. |
| Function | Cleaves a variety of phosphodiester and phosphosulfate bonds including deoxynucleotides, nucleotide sugars, and NAD. [UniProt] |
| Research Area | Gene Regulation antibody; Metabolism antibody; Signaling Transduction antibody |
| Calculated Mw | 100 kDa |
| PTM | N-glycosylation is necessary for correct trafficking to the apical surface, but is not the apical targeting signal. |

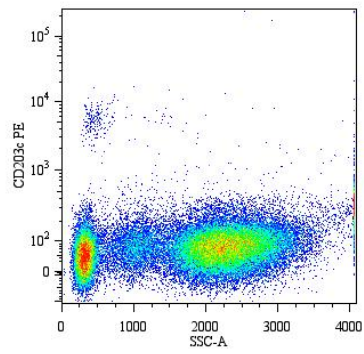
Images



ARG54291 anti-CD203c / E-NPP3 antibody [NP4D6] (PE) ICC/IF image

Immunofluorescence: Activated human basophil by [ARG62913](#) anti-CD63 antibody [MEM-259] (FITC) (green) and ARG54291 anti-CD203c / E-NPP3 antibody [NP4D6] (PE) (red); merged signal yellow. DAPI (blue) for nuclear staining.

ARG54291 anti-CD203c / E-NPP3 antibody [NP4D6] (PE) FACS image



Flow Cytometry: Human basophils in allergen-stimulated whole blood stained with ARG54291 anti-CD203c / E-NPP3 antibody [NP4D6] (PE).