

1F-585-T100

Monoclonal Antibody to CD203c Fluorescein (FITC) conjugated (100 tests)

| Clone: | NP4D6 |
|---------------------------|---|
| lsotype: | Mouse IgG1 |
| 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 |
| Regulatory Status: | RUO |
| Immunogen: | HEK-293 cells transfected with human CD203c |
| Species Reactivity: | Human |
| Preparation: | The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use. No reconstitution is necessary. |
| Storage Buffer: | The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide. |
| Storage / Stability: | Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label. |
| Usage: | The reagent is designed for Flow Cytometry analysis of human blood cells using 4 μ l reagent / 100 μ l of whole blood or 10 ⁶ cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests. |
| Expiration: | See vial label |
| Lot Number: | See vial label |
| 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. |

For laboratory research only, not for drug, diagnostic or other use.



Antibodies References:

*Hauswirth AW, Escribano L, Prados A, Nuñez R, Mirkina I, Kneidinger M, Florian S, Sonneck K, Vales A, Schernthaner GH, Sanchez-Muñoz L, Sperr WR, Bühring HJ, Orfao A, Valent P: CD203c is overexpressed on neoplastic mast cells in systemic mastocytosis and is upregulated upon IgE receptor cross-linking. Int J Immunopathol Pharmacol. 2008 Oct-Dec;21(4):797-806.

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*Bühring HJ, Simmons PJ, Pudney M, Müller R, Jarrossay D, van Agthoven A, Willheim M, Brugger W, Valent P, Kanz L: The monoclonal antibody 97A6 defines a novel surface antigen expressed on human basophils and their multipotent and unipotent progenitors. Blood. 1999 Oct 1;94(7):2343-56.

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*Platz IJ, Binder M, Marxer A, Lischka G, Valent P, Bühring HJ: Hymenoptera-venom-induced upregulation of the basophil activation marker ecto-nucleotide pyrophosphatase/phosphodiesterase 3 in sensitized individuals. Int Arch Allergy Immunol. 2001 Dec;126(4):335-42.

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