

1A-585-T100

Monoclonal Antibody to CD203c Allophycocyanin (APC) conjugated (100 tests)

Clone:	NP4D6
Isotype:	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 cross-linked Allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography 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 10 μ l reagent / 100 μ l of whole blood or 10 ⁶ cells in a suspension. The content of a vial (1 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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