

TECHNICAL DATA SHEET

CyFlow™ CD203c FITC Anti-Hu; Clone NP4D6

REF CT441730

For Research Use Only.
Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD203c
Alternative Names	E-NPP3, PDNP3, PD-1b, B10, NPP3
Clone	NP4D6
Clonality	monoclonal
Format	FITC
Host / Isotype	Mouse / IgG1
Species Reactivity	Human
Negative Species Reactivity	—
Quantity	100 tests
Immunogen	HEK-293 cells transfected with human CD203c

Specificity

The mouse monoclonal antibody NP4D6 recognizes CD203c antigen, a transmembrane ectoenzyme expressed on basophils and mast cells, and overexpressed upon their activation.

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Application

The reagent is designed for Flow Cytometry analysis of human blood cells. Recommended usage is 4 µl reagent / 100 µl of whole blood or 10⁶ cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.

Other usages may be determined from the scientific literature.

Storage Buffer

The reagent is provided in stabilizing phosphate buffered saline (PBS) solution, pH ≈7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

CD203c (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.

References

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The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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