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- Mindermengenzuschlag
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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

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Technically
Speaking

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Mouse Anti-CD203c Monoclonal Antibody

CLX310AP
CLX310F
CLX310PE
CLX310APC

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

Immunogen: HEK-293 cells transfected with human CD203c.

Species Reactivity: Human

Application: Flow Cytometry; Immunocytochemistry.

Conjugate Preparation:

The purified antibody is conjugated with Fluorescein isothiocyanate (FITC), R-Phycoerythrin (PE) or cross-linked Allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.

Presentation:

Purified: 0.1 mg (1 mg/mL) purified IgG buffered in PBS with 15 mM sodium azide, approx. pH 7.4. (Purified from hybridoma culture supernatant by protein-A affinity chromatography).

FITC: 0.4 mL of FITC conjugated IgG buffered in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide. Sufficient for 100 tests.

PE: 2 mL of PE conjugated IgG buffered in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide. Sufficient for 100 tests.

APC: 1 mL of APC conjugated IgG buffered in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide. Sufficient for 100 tests.

Storage / Stability:

Store in the dark at 2-8°C. Do not freeze all formats. Avoid prolonged exposure to light of conjugates.

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4410 Paletta Court, Burlington, ON L7L 5R2 ph: (289) 288-0001, fax: (289) 288-0020
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In the USA: Toll Free: 1-800-721-1644

1210 Turrentine Street, Burlington, NC 27215 ph: (336) 513-5135, fax: (336) 513-5138
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Usage:

Recommended dilutions for Flow Cytometry analysis of human blood cells using:

Purified: 1-5 µg/ml

FITC: 4 µl reagent / 100 µl of whole blood or 10⁶ cells in a suspension.

PE: 20 µl reagent / 100 µl of whole blood or 10⁶ cells in a suspension.

APC: 10 µl reagent / 100 µl of whole blood or 10⁶ cells in a suspension.

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.

References:

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