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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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### **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 10<sup>6</sup> cells in a suspension.

**PE:** 20 µl reagent / 100 µl of whole blood or 10<sup>6</sup> cells in a suspension.

**APC:** 10 µl reagent / 100 µl of whole blood or 10<sup>6</sup> 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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**Laboratory Reagent For Research Use Only**