

Product datasheet for **AM12003AC-N**

ENPP3 Mouse Monoclonal Antibody [Clone ID: NP4D6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	NP4D6
Applications:	FC, IF
Recommended Dilution:	Flow Cytometry analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 10 ⁶ cells in a suspension.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	HEK-293 cells transfected with human CD203c
Specificity:	This antibody reacts with CD203c, a transmembrane ectoenzyme expressed on basophils and mast cells, and overexpressed upon their activation.
Formulation:	Phosphate buffered saline (PBS) Label: APC State: Liquid Ig fraction Stabilizer: 0.2% (w/v) high-grade protease free Bovine Serum Albumin (BSA) Preservative: Containing 15 mM sodium azide
Conjugation:	APC
Storage:	Store the antibody at 2-8°C. DO NOT FREEZE! This product is photosensitive and should be protected from light.
Stability:	Shelf life: one year from despatch.
Gene Name:	ectonucleotide pyrophosphatase/phosphodiesterase 3
Database Link:	Entrez Gene 5169 Human O14638



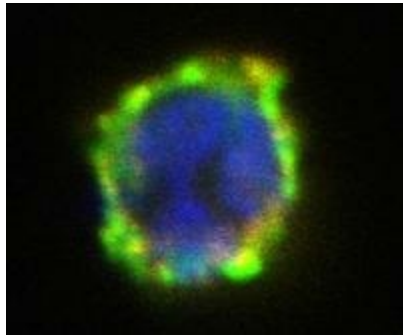
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Background:

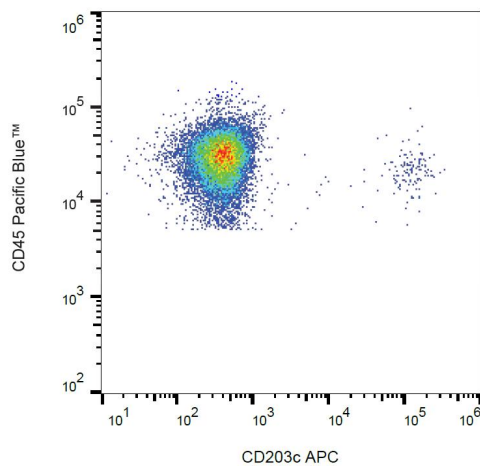
CD203c, also known as ENPP-3, is integral membrane ectoenzyme (ectonucleotide pyrophosphatase/phosphodiesterase 3), that hydrolyses nucleotide triphosphates and thus modulates purinergic signaling. CD203c is expressed mainly on activated basophils and mast cells. CD203c is upregulated in response to 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.

Synonyms:

E-NPP 3, PDNP3, Phosphodiesterase I beta, PD-I beta

Product images:

Surface staining of activated human basophil by FITC-conjugated anti-CD63 (clone MEM-259, green) and PE-conjugated anti-CD203c (clone NP4D6, red); merged signal yellow. DNA visualized by DAPI (blue).



Surface staining of human basophils in IgE-activated whole blood by anti-CD203c antibody (NP4D6) APC.