

Product datasheet for **AM12003PU-N**

ENPP3 Mouse Monoclonal Antibody [Clone ID: NP4D6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	NP4D6
Applications:	FC, IF
Recommended Dilution:	Immunocytochemistry. Flow Cytometry: 1-4 µg/ml. Intracellular and Extracellular staining.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	HEK-293 cells transfected with Human CD203c
Specificity:	This Monoclonal antibody NP4D6 reacts with CD203c, a transmembrane ectoenzyme expressed on basophils and mast cells, and overexpressed upon their activation.
Formulation:	Phosphate buffered saline (PBS), pH~7.4 with 15 mM Sodium Azide as preservative State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE)
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein A
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C. Avoid repeated freezing and thawing.
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:

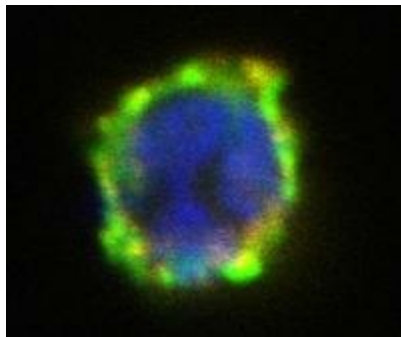
E-NPP 3, PDNP3, Phosphodiesterase I beta, PD-I beta

Protein Families:

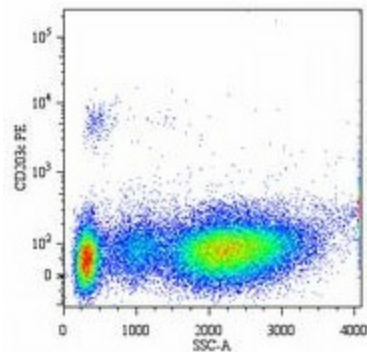
Druggable Genome, Transmembrane

Protein Pathways:

Metabolic pathways, Nicotinate and nicotinamide metabolism, Pantothenate and CoA biosynthesis, Purine metabolism, Riboflavin metabolism, Starch and sucrose metabolism

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 allergen-stimulated whole blood (CD203cpos/ SSClow) by anti-CD203c antibody (NP4D6).