

Datasheet for ABIN457434

anti-ENPP3 antibody**2** Images**2** Publications[Go to Product page](#)

Overview

Quantity:	0.1 mg
Target:	ENPP3
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This ENPP3 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunocytochemistry (ICC)

Product Details

Immunogen:	HEK-293 cells transfected with human CD203c
Clone:	NP4D6
Isotype:	IgG1
Specificity:	The mouse monoclonal antibody NP4D6 reacts with an extracellular epitope of CD203c, a transmembrane ectoenzyme expressed on basophils and mast cells, and overexpressed upon their activation.
Cross-Reactivity (Details):	Human
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

Target:	ENPP3
Alternative Name:	CD203c (ENPP3 Products)
Background:	Ectonucleotide pyrophosphatase/phosphodiesterase 3,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.,ENPP3, B10, PDNP3, PD-IBETA
Gene ID:	5169
UniProt:	O14638
Pathways:	Regulation of Muscle Cell Differentiation , Negative Regulation of Transporter Activity

Application Details

Application Notes:	Flow cytometry: Recommended dilution: 1-4 µg/mL. Extracellular and intracellular staining.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Do not freeze.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

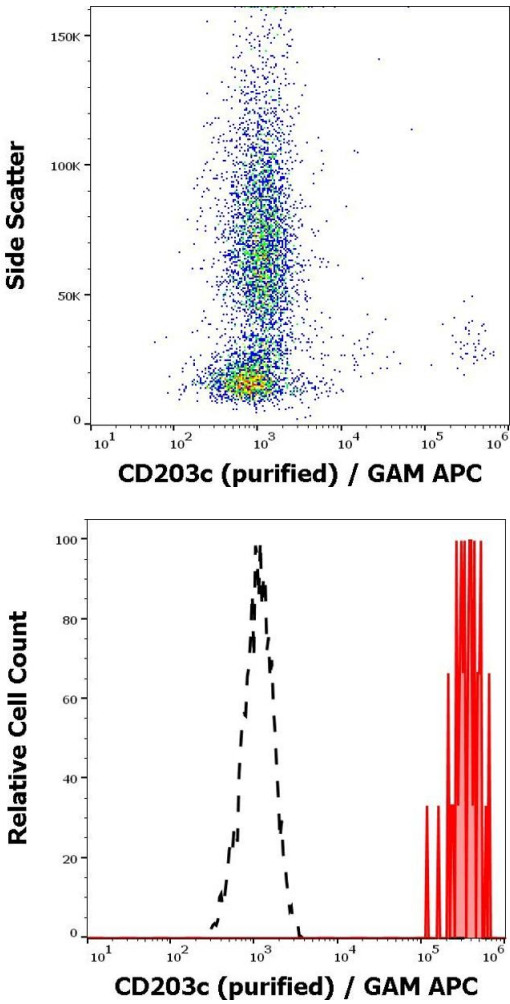
Publications

Product cited in:	Heneberg, Riegerová, Kučera: "Pimecrolimus Is a Potent Inhibitor of Allergic Reactions to Hymenopteran Venom Extracts and Birch Pollen Allergen In Vitro." in: PLoS ONE , Vol. 10, Issue
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11, pp. e0142953, (2015) ([PubMed](#)).

Platz, Binder, Marxer, Lischka, Valent, Bühring: "Hymenoptera-venom-induced upregulation of the basophil activation marker ecto-nucleotide pyrophosphatase/phosphodiesterase 3 in sensitized individuals." in: **International archives of allergy and immunology**, Vol. 126, Issue 4, pp. 335-42, (2002) ([PubMed](#)).

Images



Flow Cytometry

Image 1. Flow cytometry surface staining pattern of IgE stimulated human peripheral whole blood stained using anti-human CD203c (NP4D6) purified antibody (concentration in sample 2 µg/mL, GAM APC).

Flow Cytometry

Image 2. Separation of CD203c positive basophil granulocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of IgE stimulated human peripheral whole blood using anti-human CD203c (NP4D6) purified antibody (concentration in sample 2 µg/mL, GAM APC).