Datasheet for ABIN1690738

anti-ENPP3 antibody (FITC)

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Overview

Quantity:	100 tests
Target:	ENPP3
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This ENPP3 antibody is conjugated to FITC
Application:	Flow Cytometry (FACS)

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 antibody is conjugated with fluorescein isothiocyanate (FITC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

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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: The reagent is designed for analysis of human blood cells using 4 µL reagent / 100 µL of whole blood or 10^6 cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests. Extracellular and intracellular staining.
Comment:	The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use. No reconstitution is necessary.
Restrictions:	For Research Use only

Handling

Reconstitution:	No reconstitution is necessary.
Buffer:	Stabilizing 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.** Avoid prolonged exposure to light.
Storage:	4 °C

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Handling

Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Publications

Product cited in:

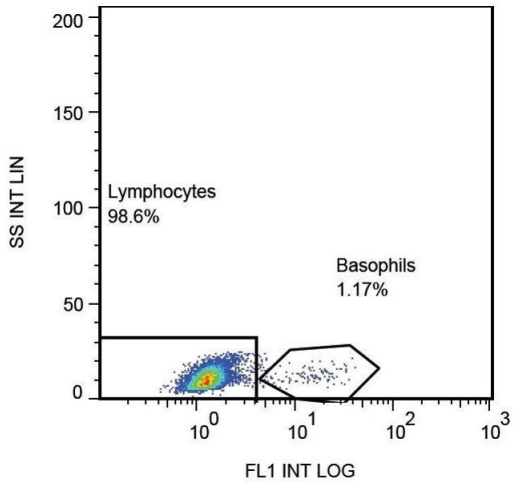
Heneberg, Riegerová, Kučera: "Pimecrolimus Is a Potent Inhibitor of Allergic Reactions to Hymenopteran Venom Extracts and Birch Pollen Allergen In Vitro." in: **PLoS ONE**, Vol. 10, Issue 11, pp. e0142953, (2015) (PubMed).

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).

Bühring, Seiffert, Giesert, Marxer, Kanz, Valent, Sano: "The basophil activation marker defined by antibody 97A6 is identical to the ectonucleotide pyrophosphatase/phosphodiesterase 3." in: **Blood**, Vol. 97, Issue 10, pp. 3303-5, (2001) (PubMed).

Bühring, Simmons, Pudney, Müller, Jarrossay, van Agthoven, Willheim, Brugger, Valent, Kanz: " The monoclonal antibody 97A6 defines a novel surface antigen expressed on human basophils and their multipotent and unipotent progenitors." in: **Blood**, Vol. 94, Issue 7, pp. 2343-56, (1999) (PubMed).

Images



Flow Cytometry

Image 1. Surface staining of human peripheral blood by anti-CD203c antibody (NP4D6) FITC.