ARG54290
anti-CD203c / E-NPP3 antibody [NP4D6] (APC)

Package: 50 tests
Store at: 4°C

Summary

Product Description	APC-conjugated Mouse Monoclonal antibody [NP4D6] recognizes CD203c
Tested Reactivity	Hu
Tested Application	FACS
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
Host	Mouse
Clonality	Monoclonal
Clone	NP4D6
Isotype	IgG1
Target Name	CD203c / E-NPP3
Species	Human
Immunogen	HEK-293 cells transfected with human CD203c_x000D_
Conjugation	APC
Alternate Names	Ectonucleotide pyrophosphatase/phosphodiesterase family member 3; PDNP3; NPPase; EC 3.6.1.9; EC 3.1.4.1; PD-Ibeta; PD-IBETA; NPP3; B10; CD antigen CD203c; Phosphodiesterase I beta; E-NPP 3; Phosphodiesterase I/nucleotide pyrophosphatase 3; CD203c

Application Instructions

Application table

Application	Dilution
FACS	10 µl / 100 µl of whole blood or 10^6 cells

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

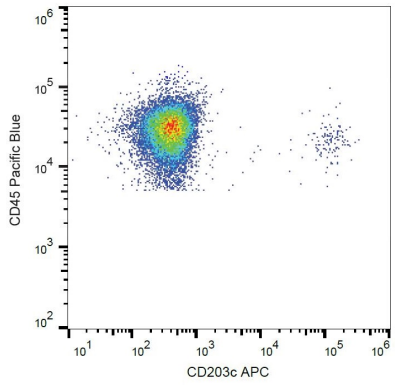
Form	Liquid
Purification Note	The purified antibody is conjugated with cross-linked Allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Buffer	PBS, 15 mM Sodium azide and 0.2% (w/v) high-grade protease free BSA
Preservative	15 mM Sodium azide
Stabilizer	0.2% (w/v) high-grade protease free BSA
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be

	gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

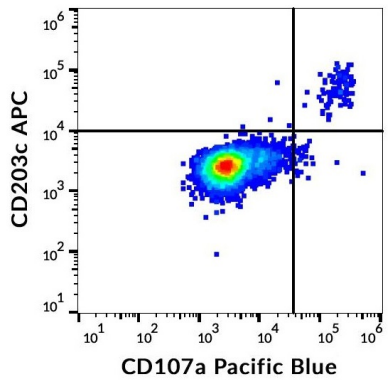
Database links	GeneID: 5169 Human Swiss-port # O14638 Human
Gene Symbol	ENPP3
Gene Full Name	ectonucleotide pyrophosphatase/phosphodiesterase 3
Background	CD203c, also known as ENPP-3, is integral membrane ectoenzyme (ectonucleotide pyrophosphatase/phosphodiesterase 3), that hydrolyses nucleotide triphosphates 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.
Function	Cleaves a variety of phosphodiester and phosphosulfate bonds including deoxynucleotides, nucleotide sugars, and NAD. [UniProt]
Research Area	Gene Regulation antibody; Metabolism antibody; Signaling Transduction antibody
Calculated Mw	100 kDa
PTM	N-glycosylation is necessary for correct trafficking to the apical surface, but is not the apical targeting signal.

Images



ARG54290 anti-CD203c / E-NPP3 antibody [NP4D6] (APC) FACS image

Flow Cytometry: Human basophils in IgE-activated whole blood stained with ARG54290 anti-CD203c / E-NPP3 antibody [NP4D6] (APC).



ARG54290 anti-CD203c / E-NPP3 antibody [NP4D6] (APC) FACS image

Flow Cytometry: IgE-stimulated human PBMC stained with anti-CD107a antibody [H4A3] (Pacific Blue) and ARG54290 anti-CD203c / E-NPP3 antibody [NP4D6] (APC).