

ARG42424
anti-CD109 antibody [W7C5] (PE)Package: 50 tests
Store at: 4°C

Summary

Product Description	PE-conjugated Mouse Monoclonal antibody [W7C5] recognizes CD109
Tested Reactivity	Hu
Tested Application	FACS
Specificity	The mouse monoclonal antibody W7C5 recognizes CD109, an approximately 165 kDa GPI-anchored extracellular protein expressed mainly on various hematopoietic cells, activated T lymphoblasts, activated platelets, and endothelial cells.
Host	Mouse
Clonality	Monoclonal
Clone	W7C5
Isotype	IgG1
Target Name	CD109
Species	Human
Immunogen	WERI-Rb-1 retinoblastoma cell line.
Conjugation	PE
Alternate Names	p180; CPAMD7; Platelet-specific Gv antigen; CD109 antigen; r150; 150 kDa TGF-beta-1-binding protein; CD antigen CD109; C3 and PZP-like alpha-2-macroglobulin domain-containing protein 7

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.

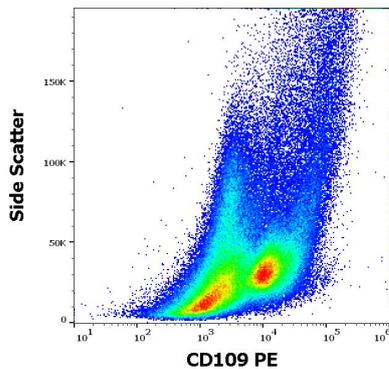
Properties

Form	Liquid
Purification	Purified
Buffer	PBS and 15 mM Sodium azide.
Preservative	15 mM Sodium azide
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

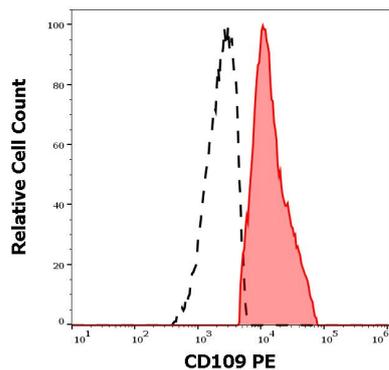
Gene Symbol	CD109
Gene Full Name	CD109 molecule
Background	This gene encodes a glycosyl phosphatidylinositol (GPI)-linked glycoprotein that localizes to the surface of platelets, activated T-cells, and endothelial cells. The protein binds to and negatively regulates signalling by transforming growth factor beta (TGF-beta). Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2014]
Function	Modulates negatively TGFB1 signaling in keratinocytes. [UniProt]
Calculated Mw	162 kDa
PTM	N-glycosylated. 2 forms of 150 (p150) and 120 kDa (p120) exist due to proteolytic degradation from a 180 kDa form. [UniProt]
Cellular Localization	Cell membrane; Lipid-anchor, GPI-anchor. [UniProt]

Images



ARG42424 anti-CD109 antibody [W7C5] (PE) FACS image

Flow Cytometry: Human PHA stimulated peripheral blood mononuclear cells stained with ARG42424 anti-CD109 antibody [W7C5] (PE) at 10 μ l / 10⁶ cells in 100 μ l of cell suspension.



ARG42424 anti-CD109 antibody [W7C5] (PE) FACS image

Flow Cytometry: Separation of Human CD109 positive cells (red-filled) from CD109 negative cells (black-dashed). Human PHA stimulated peripheral blood mononuclear cells stained with ARG42424 anti-CD109 antibody [W7C5] (PE) at 10 μ l / 10⁶ cells in 100 μ l of cell suspension.