antibodies

Datasheet for ABIN94130 anti-CD45 antibody (PE)

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Overview

Quantity:	100 tests
Target:	CD45 (PTPRC)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD45 antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

Product Details

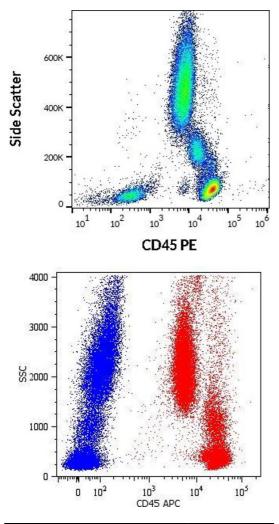
Immunogen:	Human thymocytes and T lymphocytes.
Clone:	MEM-28
lsotype:	lgG1
Specificity:	The antibody MEM-28 reacts with an extracellular epitope on all alternative forms of human CD45 antigen (Leukocyte Common Antigen), a 180-220 kDa single chain type I transmembrane protein expressed at high level on all cells of hematopoietic origin, except erythrocytes and platelets.
No Cross-Reactivity:	Horse
Cross-Reactivity (Details):	Human
Purification:	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

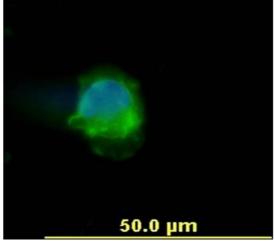
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Target Details	
Target:	CD45 (PTPRC)
Alternative Name:	CD45 (PTPRC Products)
Background:	Protein tyrosine phosphatase receptor type C,CD45 (LCA, leukocyte common antigen) is a
	receptor-type protein tyrosine phosphatase ubiquitously expressed in all nucleated
	hematopoietic cells, comprising approximately 10 % of all surface proteins in lymphocytes.
	CD45 glycoprotein is crucial in lymphocyte development and antigen signaling, serving as an
	important regulator of Src-family kinases. CD45 protein exists as multiple isoforms as a result
	of alternative splicing, these isoforms differ in their extracellular domains, whereas they share
	identical transmembrane and cytoplasmic domains. These isoforms differ in their ability to
	translocate into the glycosphingolipid-enriched membrane domains and their expression
	depends on cell type and physiological state of the cell. Besides the role in immunoreceptor
	signaling, CD45 is important in promoting cell survival by modulating integrin-mediated signal
	transduction pathway and is also involved in DNA fragmentation during apoptosis.,LCA, T200,
	LY5, B220, GP180, TPC
Gene ID:	5788
UniProt:	P08575
Pathways:	TCR Signaling, Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune
	Effector Process, Production of Molecular Mediator of Immune Response, CXCR4-mediated
	Signaling Events, BCR Signaling
Application Details	
Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 20 μ L reagent
	/ 100 μL of whole blood or 10 ⁶ cells in a suspension. The content of a vial (2 ml) is sufficient for
	100 tests.
Comment:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The
	conjugate is purified by size-exclusion chromatography and adjusted for direct use. No
	reconstitution is necessary.
Restrictions:	For Research Use only
Handling	
	No reconstitution is necessary.
Reconstitution:	

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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
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).
	McCormack, Muji?, Osdal, Bruserud, Gjertsen: "Multiplexed mAbs: a new strategy in preclinical
	time-domain imaging of acute myeloid leukemia." in: Blood , Vol. 121, Issue 7, pp. e34-42, (2013
	(PubMed).
	Majer, Vlaskova, Krol, Kalina, Kubanek, Stolnaya, Dvorakova, Elleder, Sikora: "Danon disease: a
	focus on processing of the novel LAMP2 mutation and comments on the beneficial use of
	peripheral white blood cells in the diagnosis of LAMP2 deficiency." in: Gene , Vol. 498, Issue 2,
	pp. 183-95, (2012) (PubMed).
	Koethe, Zander, Köster, Annan, Ebenfelt, Spencer, Bemark: "Pivotal advance: CD45RB
	glycosylation is specifically regulated during human peripheral B cell differentiation." in: Journa
	of leukocyte biology, Vol. 90, Issue 1, pp. 5-19, (2011) (PubMed).
	Drbal, Moertelmaier, Holzhauser, Muhammad, Fuertbauer, Howorka, Hinterberger, Stockinger,
	Schütz: "Single-molecule microscopy reveals heterogeneous dynamics of lipid raft components
	upon TCR engagement." in: International immunology , Vol. 19, Issue 5, pp. 675-84, (2007) (
	PubMed).
	There are more publications referencing this product on: Product page





Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD45 (MEM-28) PE antibody (20 μ L reagent / 100 μ L of peripheral whole blood).

Flow Cytometry

Image 2. Surface staining of human peripheral blood cells with anti-human CD45 (MEM-28) APC.

Immunocytochemistry

Image 3. Immunocytochemistry staining of human peripheral blood mononuclear cell using anti-human CD45 (, green). DNA visualized by DAPI (blue)

Please check the product details page for more images. Overall 4 images are available for ABIN94130.

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