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Datasheet for ABIN93952 anti-ITGAL antibody (PE)

3 Images

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Overview

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

Product Details

Immunogen:	Leukocytes from a patient suffering from a LGL-type leukaemia.
Clone:	MEM-25
Isotype:	lgG1
Specificity:	The antibody MEM-25 reacts with an extracellular epitope of CD11a (alpha subunit of human LFA-1), a 170-180 kDa type I transmembrane glycoprotein expressed on B and T lymphocytes, monocytes, macrophages, neutrophils, basophils and eosinophils.
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.
Target Details	

Target: ITGAL Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com

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Alternative Name:	CD11a (ITGAL Products)
Background:	Integrin subunit alpha L,CD11a (LFA-1 alpha) together with CD18 constitute leukocyte function-
	associated antigen 1 (LFA-1), the alphaLbeta2 integrin. CD11a is implicated in activation of LFA
	1 complex. LFA-1 is expressed on the plasma membrane of leukocytes in a low-affinity
	conformation. Cell stimulation by chemokines or other signals leads to induction the high-
	affinity conformation, which supports tight binding of LFA-1 to its ligands, the intercellular
	adhesion molecules ICAM-1, -2, -3. LFA-1 is thus involved in interaction of various immune cells
	and in their tissue-specific settlement, but participates also in control of cell differentiation and
	proliferation and of T-cell effector functions. Blocking of LFA-1 function by specific antibodies
	or small molecules has become an important therapeutic approach in treatment of multiple
	inflammatory diseases. For example, humanized anti-LFA-1 antibody Efalizumab (Raptiva) is
	being used to interfere with T cell migration to sites of inflammation, binding of cholesterol-
	lowering drug simvastatin to CD11a allosteric site leads to immunomodulation and increase in
	lymphocytic cholinergic activity.,LFA-1, LFA1A, ITGAL
Gene ID:	3683
UniProt:	P20701
Pathways:	Activated T Cell Proliferation, Integrin Complex
Application Details	
Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 20 μ L reagent
	/ 100 μ L 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 in personality
Reconstitution:	No reconstitution is necessary.
Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

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	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:	Aubert, Yoon, Sloan, Spear, Jerome: "The virological synapse facilitates herpes simplex virus
	entry into T cells." in: Journal of virology, Vol. 83, Issue 12, pp. 6171-83, (2009) (PubMed).
	Wang, Kwas, Wu: "Intercellular adhesion molecule 1 (ICAM-1), but not ICAM-2 and -3, is
	important for dendritic cell-mediated human immunodeficiency virus type 1 transmission." in:
	Journal of virology, Vol. 83, Issue 9, pp. 4195-204, (2009) (PubMed).
	Ottonello, Epstein, Mancini, Dapino, Dallegri: "Monoclonal LYM-1 antibody-dependent cytolysis
	by human neutrophils exposed to GM-CSF: auto-regulation of target cell attack by cathepsin G."
	in: Journal of leukocyte biology, Vol. 75, Issue 1, pp. 99-105, (2004) (PubMed).
	Mathison, Befus, Davison, Woodman: "Modulation of neutrophil function by the tripeptide feG."
	in: BMC immunology , Vol. 4, pp. 3, (2003) (PubMed).
	Hajishengallis, Martin, Sojar, Sharma, Schifferle, DeNardin, Russell, Genco: "Dependence of
	bacterial protein adhesins on toll-like receptors for proinflammatory cytokine induction." in:
	Clinical and diagnostic laboratory immunology, Vol. 9, Issue 2, pp. 403-11, (2002) (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 CD11a (MEM-25) 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 CD11a (MEM-25) PE.

Flow Cytometry

Image 3. Separation of human lymphocytes (red-filled) from CD45 negative blood debris (black-dashed) in flow cytometry analysis (surface staining) of peripheral whole blood stained using anti-human CD11a (MEM-25) PE antibody (20 µL reagent / 100 µL of peripheral whole blood).

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