

Datasheet for ABIN1302635
anti-LY9 antibody (APC)



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Overview

Quantity:	100 tests
Target:	LY9 (CD229)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This LY9 antibody is conjugated to APC
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	CD299-transfected 300.19 pre-B cell line
Clone:	HLy9-25
Isotype:	IgG1
Specificity:	The mouse monoclonal antibody HLy9.25 (also known as HLy9.1.25) recognizes an extracellular epitope of CD229 / Ly9, a 100-120 kDa cell surface glycoprotein expressed on T and B cells.
Cross-Reactivity (Details):	Human
Purification:	Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	LY9 (CD229)
Alternative Name:	CD229 (CD229 Products)
Background:	Lymphocyte antigen 9,CD229 (Ly9) is a cell surface receptor of the CD150 family, which includes also e.g. CD48 and CD224. Receptors of this family regulate cytokine production and cytotoxicity of lymphocytes and NK cells. High levels of CD229 are found on T and B cells, where its expression increases during their maturation. It is absent on granulocytes, bone marrow-derived dendritic cells, platelets and erythrocytes. CD229 has been also reported on mouse monocytes and NK cells. CD229 interacts homophilically through its N-terminal domain and localizes to the contact site between T cells and antigen presenting B cells during antigen-dependent immune synapse formation.,SLAMF3, LY9
Gene ID:	4063
UniProt:	Q9HBG7
Pathways:	BCR Signaling

Application Details

Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µL reagent / 100 µL of whole blood or 10 ⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
Comment:	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.
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.

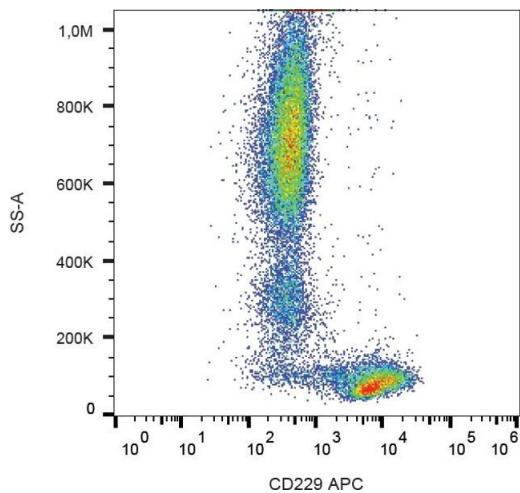
Handling

Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Publications

Product cited in:	<p>Romero, Zapater, Calvo, Kalko, de la Fuente, Tovar, Ockeloen, Pizcueta, Engel: "CD229 (Ly9) lymphocyte cell surface receptor interacts homophilically through its N-terminal domain and relocalizes to the immunological synapse." in: Journal of immunology (Baltimore, Md. : 1950), Vol. 174, Issue 11, pp. 7033-42, (2005) (PubMed).</p> <p>de la Fuente, Tovar, Villamor, Zapater, Pizcueta, Campo, Bosch, Engel: "Molecular characterization and expression of a novel human leukocyte cell-surface marker homologous to mouse Ly-9." in: Blood, Vol. 97, Issue 11, pp. 3513-20, (2001) (PubMed).</p>
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Images



Flow Cytometry

Image 1. Flow cytometry analysis (surface staining) of human peripheral blood cells with anti-human CD229 (HLy9.25) APC.