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Datasheet for ABIN2749218

anti-LY9 antibody

2 Images

1 Publication

Overview

Quantity:	0.1 mg
Target:	LY9 (CD229)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This LY9 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunoprecipitation (IP), Immunocytochemistry (ICC), Functional Studies (Func)

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 by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)
Endotoxin Level:	Endotoxin level is less than 0.01 EU/μg of the protein, as determined by the LAL test.

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

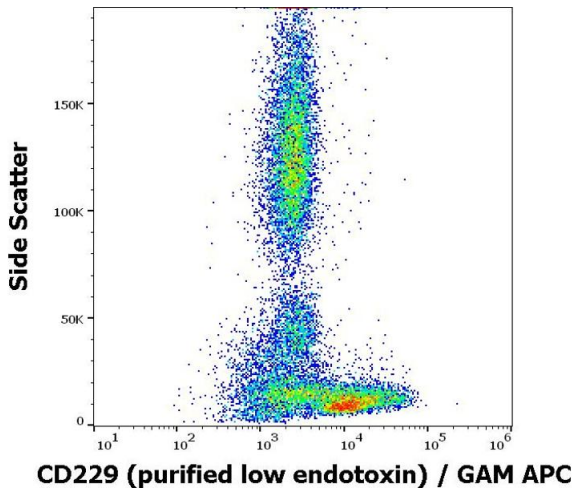
Application Notes:	Functional application: Regulation of activation, Flow cytometry: Recommended dilution: 6-10 µg/mL, positive control: peripheral blood lymphocytes.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4
Preservative:	Azide free
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

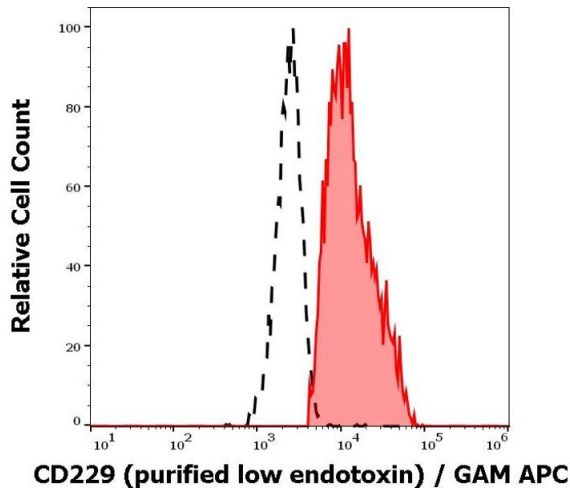
Publications

Product cited in:	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).
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Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral blood stained using anti-human CD229 (HLy9.25) purified antibody (low endotoxin, concentration in sample 16 µg/mL) GAM APC.



Flow Cytometry

Image 2. Separation of human CD229 positive lymphocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD229 (HLy9.25) purified antibody (low endotoxin, concentration in sample 16 µg/mL) GAM APC.