



11-618-C025

## Monoclonal Antibody to CD229 Purified Antibody (0.025 mg)

<b>Clone:</b>	HLy9.25
<b>Isotype:</b>	Mouse IgG1
<b>Specificity:</b>	The mouse monoclonal antibody HLy9.25 (also known as HLy9.1.25) recognizes CD229 / Ly9, a 100-120 kDa cell surface glycoprotein expressed on T and B cells.
<b>Regulatory Status:</b>	RUO
<b>Immunogen:</b>	CD299-transfected 300.19 pre-B cell line
<b>Species Reactivity:</b>	Human
<b>Application:</b>	Flow Cytometry Recommended dilution:6 µg/ml Positive control:peripheral blood lymphocytes Immunoprecipitation Western Blotting Immunocytochemistry Functional Application Regulation of activation
<b>Purity:</b>	> 95% (by SDS-PAGE)
<b>Purification:</b>	Purified by protein-A affinity chromatography
<b>Concentration:</b>	1 mg/ml
<b>Storage Buffer:</b>	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
<b>Storage / Stability:</b>	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
<b>Expiration:</b>	See vial label
<b>Lot Number:</b>	See vial label
<b>Background:</b>	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.

**For laboratory research only, not for drug, diagnostic or other use.**

**Antibodies****References:**

- \*Del Valle JM, Engel P, Martín M: The cell surface expression of SAP-binding receptor CD229 is regulated via its interaction with clathrin-associated adaptor complex 2 (AP-2). *J Biol Chem.* 2003 May 9;278(19):17430-7.
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- \*Romero X, Benítez D, March S, Vilella R, Miralpeix M, Engel P: Differential expression of SAP and EAT-2-binding leukocyte cell-surface molecules CD84, CD150 (SLAM), CD229 (Ly9) and CD244 (2B4). *Tissue Antigens.* 2004 Aug;64(2):132-44.
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- \*Martín M, Del Valle JM, Saborit I, Engel P: Identification of Grb2 as a novel binding partner of the signaling lymphocytic activation molecule-associated protein binding receptor CD229. *J Immunol.* 2005 May 15;174(10):5977-86.
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- \*Romero X, Zapater N, Calvo M, Kalko SG, de la Fuente MA, Tovar V, Ockeloen C, Pizcueta P, Engel P: CD229 (Ly9) lymphocyte cell surface receptor interacts homophilically through its N-terminal domain and relocalizes to the immunological synapse. *J Immunol.* 2005 Jun 1;174(11):7033-42.

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