

## Product datasheet for **AM12140LE-N**

### CD229 (LY9) Mouse Monoclonal Antibody [Clone ID: HLy9.25]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	HLy9.25
Applications:	FC, FN, IF, IP, WB
Recommended Dilution:	<b>Flow cytometry:</b> 6 µg/ml. Positive control: peripheral blood lymphocytes. <b>Immunoprecipitation.</b> <b>Western blotting.</b> <b>Immunocytochemistry.</b> <b>Functional application:</b> Regulation of activation.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	CD299-transfected 300.19 pre-B cell line
Specificity:	The antibody recognizes CD229 / Ly9, a 100-120 kDa cell surface glycoprotein expressed on T and B cells.
Formulation:	Azide free phosphate buffered saline (PBS), approx. pH 7.4; 0.2 µm filter sterilized State: Low Endotoxin State: Liquid Ig fraction
Concentration:	lot specific
Purification:	Protein-A affinity chromatography (> 95% pure by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C. <b>DO NOT FREEZE!</b>
Stability:	Shelf life: one year from despatch.
Gene Name:	lymphocyte antigen 9
Database Link:	<a href="#">Entrez Gene 4063 Human Q9HBG7</a>



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**Background:**

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.

**Synonyms:**

Ly-9

**Protein Families:**

Transmembrane