

Rabbit Monoclonal Antibody to Mouse Lymphocyte Antigen 86

Cat. No. CAB11581RM **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Rabbit Monoclonal Antibody to Mouse Lymphocyte Antigen 86
Species	Mouse
Source	Rabbit
Antigen Description	MD-1 and MD-2 are secretory glycoproteins that exist on the cell surface in complexes with transmembrane proteins. MD-1 is anchored by radioprotective 105 (RP105) which is a molecule containing leucine-rich repeats and is expressed on B cells, dendritic cells and macrophages, while MD-2 is associated with TLR4. MD-1 is required for efficient RP105 cell surface expression and function. It is indicated that the RP105/MD1 complex, in conjunction with TLR4, mediates the innate immune response to LPS in B cells, and also plays a role in protecting against apoptosis, B-cell proliferation, etc. Mouse MD-1 cDNA encodes a 162 amino acid precursor protein with a putative 19 aa signal peptide and two potential N-linked glycosylation sites. It shares 40% and 66% amino acid sequence identity with chicken and human MD-1 respectively. MD-1 is mainly expressed in spleen, and also detectable in liver, brain, thymus, and kidney.
Specificity	Mouse MD-1 / LY86. No cross-reactivity with human cell lysate (293 cell line) in WB and ELISA.
Immunogen	Recombinant Mouse MD-1 / LY86 Protein
Isotype	Rabbit IgG

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Clone	A417
Applications	Western blot; ELISA
Dilution	Western blot: This antibody can be used at 1-2 µg/mL with the appropriate secondary reagents to detect Mouse LY86 in WB. Using a DAB detection system, the detection limit for Mouse LY86 is approximately 0.5 ng/lane under non-reducing conditions and 2 ng/lane under reducing conditions. Direct ELISA: This antibody can be used at 0.1-0.2 µg/mL with the appropriate secondary reagents to detect Mouse LY86. The detection limit for Mouse LY86 is approximately 0.0195 ng/well.
Preparation	This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant Mouse MD-1 / LY86
Format	0.2 µm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70 °C. Preservative-Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	Ly86 lymphocyte antigen 86 [<i>Mus musculus</i>]
Official Symbol	LY86
Synonyms	LY86; lymphocyte antigen 86; ly-86; protein MD-1; MD1; MD-1;
Gene ID	17084

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mRNA Refseq	NM_010745
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Protein Refseq	NP_034875
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