

# Rabbit Monoclonal Antibody to Mouse Lymphocyte Antigen 86

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

## SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| <b>Product Overview</b>    | Rabbit Monoclonal Antibody to Mouse Lymphocyte Antigen 86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>             | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>              | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Antigen Description</b> | <p>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.</p> |
| <b>Specificity</b>         | Mouse MD-1 / LY86. No cross-reactivity with human cell lysate ( 293 cell line ) in WB and ELISA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Immunogen</b>           | Recombinant Mouse MD-1 / LY86 Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Isotype</b>             | Rabbit IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

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|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Clone</b>        | A417                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Applications</b> | Western blot; ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Dilution</b>     | 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. |
| <b>Preparation</b>  | This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant Mouse MD-1 / LY86                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Format</b>       | 0.2 µm filtered solution in PBS with 5% trehalose                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Storage</b>      | 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

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

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| mRNA Refseq | NM_010745 |
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| Protein Refseq | NP_034875 |
|----------------|-----------|

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