

## Product datasheet for **TA319868**

### MD2 (LY96) Mouse Monoclonal Antibody [Clone ID: 9F1B1]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	9F1B1
Applications:	ELISA, IF, IHC, WB
Recommended Dilution:	MD-2 antibody can be used for detection of MD-2 by Western blot at 1 µg/mL. Antibody can also be used for immunohistochemistry starting at 2.5 µg/mL. For immunofluorescence start at 20 µg/mL. Antibody validated: Immunohistochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested.
Reactivity:	Human, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Mouse monoclonal MD-2 antibody was raised against a recombinant protein corresponding to amino acids 2 to 160 of human MD-2
Formulation:	MD-2 Monoclonal Antibody is supplied in PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	MD-2 Monoclonal Antibody is Protein A purified.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	lymphocyte antigen 96
Database Link:	<a href="#">NP_056179</a> <a href="#">Entrez Gene 23643 Human</a> <a href="#">Q9Y6Y9</a>



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**Background:**

MD-2 Monoclonal Antibody: MD-2 is a member of the Toll/interleukin-1 receptor (TIR) family, a group of proteins that include the Toll-like receptors (TLRs). TLRs are signaling molecules that recognize different pathogen-associated molecular patterns (PAMPs) and serve as an important link between the innate and adaptive immune responses. TLR4, the major signaling receptor for lipopolysaccharide (LPS), requires the binding of MD-2 to its extracellular region for maximal response to LPS. The specificity of this response is determined by the species of MD-2; e.g., human MD-2 transfected into mouse cells can cause mouse TLR4 to react to LPS analogs that are normally antagonistic to human but not mouse TLR4.

**Synonyms:**

ESOP-1; Iy-96; MD-2; MD2