

For Research Use Only

# LY96/MD2 Polyclonal antibody

Catalog Number: 11784-1-AP

15 Publications



## Basic Information

<b>Catalog Number:</b> 11784-1-AP	<b>GenBank Accession Number:</b> BC020690	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 550 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 23643	<b>Recommended Dilutions:</b> WB: 1:500-1:2000 IHC: 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9Y6Y9	
<b>Isotype:</b> IgG	<b>Full Name:</b> lymphocyte antigen 96	
<b>Immunogen Catalog Number:</b> AG2447	<b>Calculated MW:</b> 160 aa, 18 kDa	
	<b>Observed MW:</b> 20-26 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b> WB : mouse testis tissue, rat testis tissue IHC : mouse testis tissue,
<b>Cited Applications:</b> WB, IHC, IF, IP, CoIP	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human, mouse, rat	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

LY96, also named as ESOP1 or MD 2, is a small secreted glycoprotein that can bind to both the hydrophobic portion of LPS and to the extracellular domain of TLR4. The interaction between MD-2 and LPS bridges the two TLR4 molecules and induces the dimerization of LPS-MD-2-TLR4, which forms the structural basis for biological functions of TLR4/MD-2 complex. Due to its essential role in mediating the interaction between LPS and TLR4, MD-2 has been extensively explored as a therapeutic target for treatment of inflammatory disorders.

## Notable Publications

Author	Pubmed ID	Journal	Application
Min Zhang	36414003	J Agric Food Chem	WB,IP,IF
Mengya Zhao	35372062	Front Oncol	WB
Zhen Sun	35257279	J Cardiovasc Transl Res	WB

## Storage

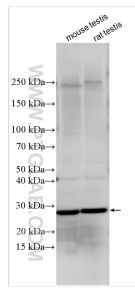
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

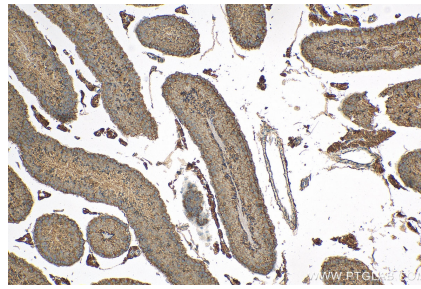
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 11784-1-AP (LY96/MD2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 11784-1-AP (LY96/MD2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).