

For Research Use Only

LY96/MD2 Polyclonal antibody

Catalog Number: 11784-1-AP **4 Publications**



Basic Information

Catalog Number: 11784-1-AP	GenBank Accession Number: BC020690	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 133 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 23643	Recommended Dilutions: WB 1:500-1:1000 IHC 1:20-1:200
Source: Rabbit	Full Name: Lymphocyte antigen 96	
Isotype: IgG	Calculated MW: 160 aa, 18 kDa	
Immunogen Catalog Number: AG2447	Observed MW: 20 kDa and 30 kDa and 35 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls: WB : U-937 cells, IHC : human kidney tissue,
Cited Applications: WB	
Species Specificity: human	
Cited Species: human, mouse, rat	

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

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
Mengya Zhao	35372062	Front Oncol	WB
Zhen Sun	35257279	J Cardiovasc Transl Res	WB
Yang Hu	31816891	Molecules	

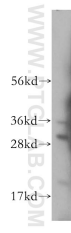
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

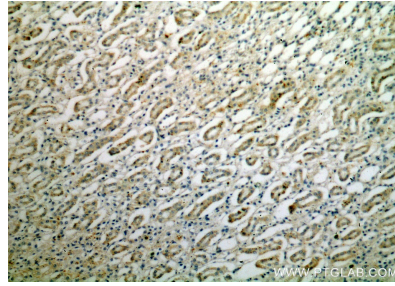
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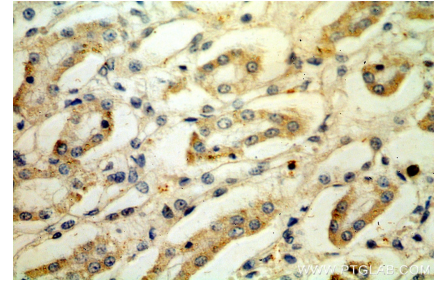
Selected Validation Data



U-937 cells were subjected to SDS PAGE followed by western blot with 11784-1-AP (LY96/MD2 antibody) at dilution of 1:400 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human kidney using 11784-1-AP (LY96/MD2 antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human kidney using 11784-1-AP (LY96/MD2 antibody) at dilution of 1:50 (under 40x lens).