

**MD1 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP58045**

**Specification**

**MD1 Polyclonal Antibody - Product Information**

Application	IHC-P, IHC-F, IF, E
Primary Accession	<a href="#">O95711</a>
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	16 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human LY-86
Epitope Specificity	65-162/162
Isotype	IgG
<b>Purity</b>	
affinity purified by Protein A	
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Secreted. extracellular space. Associated with CD180 at the cell surface.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**Background Descriptions**

MD1 is a 28 kDa molecule that is associated at the cell surface with RP105 (CD180). RP105 is a leucine-rich repeat (LRR) molecule that is expressed on B lymphocytes. It was first identified by a mAb that protects spleen B cells from irradiation-induced apoptosis. LRR proteins, such as Toll receptors, have a role in innate immunity. MD1 is primarily expressed by B cells, dendritic cells and monocytes, and promotes the recognition of, and subsequent signaling by LPS in the innate immune system. MD1 does not have any homology to other molecules. MD1 when expressed alone behaves as a secretory protein. Expression of MD1 in a cell increases the expression of RP105.

**MD1 Polyclonal Antibody - Additional Information**

**Gene ID** 9450

**Other Names**

Lymphocyte antigen 86, Ly-86, Protein MD-1, LY86, MD1

**Target/Specificity**

Highly expressed in B-cells, monocytes and tonsil.

**Dilution**

<span class = "dilution\_IHC-P">IHC-P~~N/A</span><br \><span class

=["dilution\\_IHC-F">IHC-F](#)~[N/A](#)</span><br \><span class  
=["dilution\\_IF">IF](#)~[1:50~200](#)</span><br \><span class =["dilution\\_E">E](#)~[N/A](#)</span>

### Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

## MD1 Polyclonal Antibody - Protein Information

**Name** LY86

**Synonyms** MD1

### Function

May cooperate with CD180 and TLR4 to mediate the innate immune response to bacterial lipopolysaccharide (LPS) and cytokine production. Important for efficient CD180 cell surface expression (By similarity).

### Cellular Location

Secreted, extracellular space. Note=Associated with CD180 at the cell surface

### Tissue Location

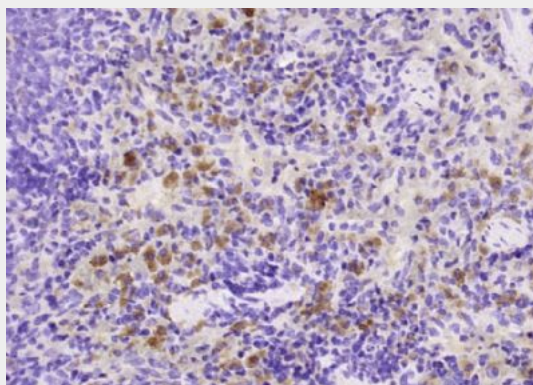
Highly expressed in B-cells, monocytes and tonsil.

## MD1 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## MD1 Polyclonal Antibody - Images



Paraformaldehyde-fixed, paraffin embedded (rat spleen); Antigen retrieval by boiling in sodium

citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (MD1) Polyclonal Antibody, Unconjugated (bs-2661R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.