

**Anti-MyD88 Antibody**  
Catalog # ABO10975**Specification**

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**Anti-MyD88 Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">Q99836</a>
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Myeloid differentiation primary response protein MyD88(MYD88) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-MyD88 Antibody - Additional Information**

**Gene ID** 4615

**Other Names**

Myeloid differentiation primary response protein MyD88, MYD88

**Calculated MW**

33233 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Rat, Mouse, By Heat<br>Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse<br>

**Subcellular Localization**

Cytoplasm .

**Tissue Specificity**

Ubiquitous. .

**Protein Name**

Myeloid differentiation primary response protein MyD88

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Thimerosal, 0.05mg NaN<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence in the middle region of human MyD88(174-188aa FVQEMIRQLEQTNYR), different from the related rat and mouse sequences by one amino acid.

**Purification**

Immunogen affinity purified.

#### Cross Reactivity

No cross reactivity with other proteins

#### Storage

**At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time.Avoid repeated freezing and thawing.**

#### Sequence Similarities

Contains 1 death domain.

### Anti-MyD88 Antibody - Protein Information

Name MYD88 ([HGNC:7562](#))

#### Function

Adapter protein involved in the Toll-like receptor and IL-1 receptor signaling pathway in the innate immune response (PubMed: [15361868](http://www.uniprot.org/citations/15361868) target="\_blank">15361868</a>, PubMed: [18292575](http://www.uniprot.org/citations/18292575) target="\_blank">18292575</a>, PubMed: [33718825](http://www.uniprot.org/citations/33718825) target="\_blank">33718825</a>, PubMed: [37971847](http://www.uniprot.org/citations/37971847) target="\_blank">37971847</a>). Acts via IRAK1, IRAK2, IRF7 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response (PubMed: [15361868](http://www.uniprot.org/citations/15361868) target="\_blank">15361868</a>, PubMed: [19506249](http://www.uniprot.org/citations/19506249) target="\_blank">19506249</a>, PubMed: [24316379](http://www.uniprot.org/citations/24316379) target="\_blank">24316379</a>). Increases IL-8 transcription (PubMed: [9013863](http://www.uniprot.org/citations/9013863) target="\_blank">9013863</a>). Involved in IL-18-mediated signaling pathway. Activates IRF1 resulting in its rapid migration into the nucleus to mediate an efficient induction of IFN-beta, NOS2/INOS, and IL12A genes. Upon TLR8 activation by GU-rich single-stranded RNA (GU- rich RNA) derived from viruses such as SARS-CoV-2, SARS-CoV and HIV-1, induces IL1B release through NLRP3 inflammasome activation (PubMed: [33718825](http://www.uniprot.org/citations/33718825) target="\_blank">33718825</a>). MyD88-mediated signaling in intestinal epithelial cells is crucial for maintenance of gut homeostasis and controls the expression of the antimicrobial lectin REG3G in the small intestine (By similarity).

#### Cellular Location

Cytoplasm. Nucleus

#### Tissue Location

Ubiquitous..

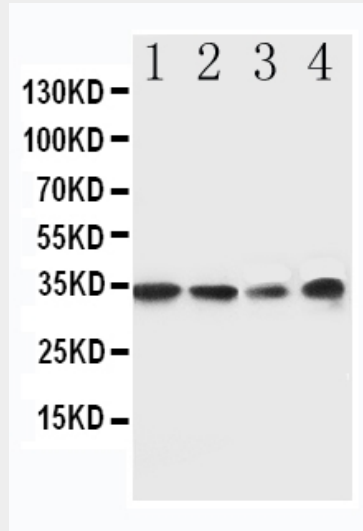
### Anti-MyD88 Antibody - Protocols

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

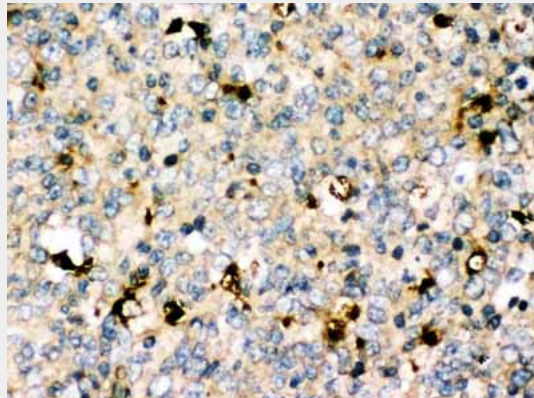
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)

- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Anti-MyD88 Antibody - Images



Anti-MyD88 antibody, ABO10975, Western blotting Lane 1: Rat Spleen Tissue Lysate Lane 2: Rat Thymus Tissue Lysate Lane 3: JURKAT Cell Lysate Lane 4: RAJI Cell Lysate



Anti-MyD88 antibody, ABO10975, IHC(P) IHC(P): Human Tonsil Tissue

### Anti-MyD88 Antibody - Background

MYD88 (MYELOID DIFFERENTIATION PRIMARY RESPONSE GENE 88), is a protein that, in humans, is encoded by the MYD88 gene. MyD88 is a key downstream adapter for most Toll-like receptors (TLRs) and interleukin-1 receptors (IL1Rs). And it is mapped on 3p22.2. MYD88 encodes a cytosolic adapter protein that plays a central role in the innate and adaptive immune response. This protein functions as an essential signal transducer in the interleukin-1 and Toll-like receptor signaling pathways. Overexpression of MYD88 caused an increase in the level of transcription from the interleukin-8 promoter. The C-terminal domain of MYD88 has significant sequence similarity to the cytoplasmic domain of IL1RAP. Inhibiting the IL1R-MYD88 pathway in vivo could block the damage from acute inflammation that occurs in response to sterile cell death, and do so in a way that might not compromise tissue repair or host defense against pathogens.

#### Anti-MyD88 Antibody - Citations

- [DFMG attenuates the activation of macrophages induced by co-culture with LPC-injured HUVE-12 cells via the TLR4/MyD88/NF-κB signaling pathway.](#)

