



[Go to Product page](#)

Datasheet for ABIN3044246

## anti-MYD88 antibody (Middle Region)

2 Images

4 Publications

### Overview

Quantity:	100 µg
Target:	MYD88
Binding Specificity:	AA 174-188, Middle Region
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MYD88 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

### Product Details

Purpose:	Rabbit IgG polyclonal antibody for Myeloid differentiation primary response protein MYD88(MYD88) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
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.
Sequence:	FVQEMIRQLE QTNYR
Isotype:	IgG
Cross-Reactivity (Details):	Predicted Cross Reactivity: mouse No cross reactivity with other proteins. Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities.

## Product Details

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Characteristics: Rabbit IgG polyclonal antibody for Myeloid differentiation primary response protein MyD88(MYD88) detection. Tested with WB, IHC-P in Human,Mouse,Rat.  
Gene Name: myeloid differentiation primary response gene(88)  
Protein Name: Myeloid differentiation primary response protein MyD88

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Purification: Immunogen affinity purified.

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## Target Details

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Target: MYD88

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Alternative Name: MYD88 ([MYD88 Products](#))

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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.

Synonyms: MYD 88 antibody|Myd88 antibody|MYD88\_HUMAN antibody|MYD88D antibody|Myeloid differentiation marker 88 antibody|Myeloid differentiation primary response gene 88 antibody|Myeloid differentiation primary response gene antibody|Myeloid differentiation primary response protein MyD88 antibody|OTTHUMP00000161718 antibody|OTTHUMP00000208595 antibody|OTTHUMP00000209058 antibody|OTTHUMP00000209059 antibody|OTTHUMP00000209060 antibody

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UniProt: [Q99836](#)

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Pathways: [NF-kappaB Signaling](#), [TLR Signaling](#), [Neurotrophin Signaling Pathway](#), [Activation of Innate immune Response](#), [Cellular Response to Molecule of Bacterial Origin](#), [Positive Regulation of Immune Effector Process](#), [Production of Molecular Mediator of Immune Response](#), [Toll-Like Receptors Cascades](#)

## Application Details

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Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse  
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse,  
Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.  
Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested.  
Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05 mg Thimerosal, 0.05 mg Sodium azide.

Preservative: Thimerosal (Merthiolate), Sodium azide

Precaution of Use: This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

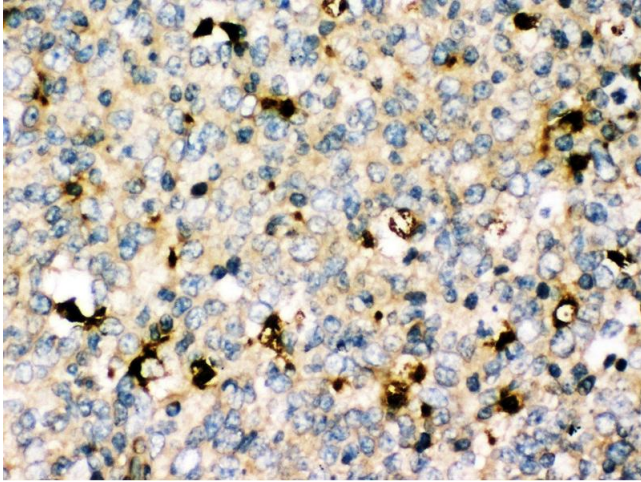
Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.  
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Expiry Date: 12 months

## Publications

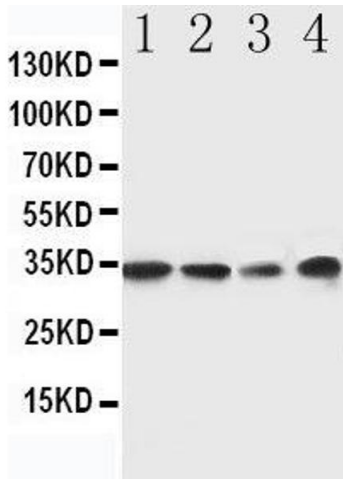
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Product cited in: Luchinat, Barbieri, Rubino, Kozyreva, Cantini, Banci: "In-cell NMR reveals potential precursor of toxic species from SOD1 fALS mutants." in: **Nature communications**, Vol. 5, pp. 5502, (2014) ([PubMed](#)).



#### Immunohistochemistry

**Image 1.** Anti-MyD88 antibody, IHC(P) IHC(P): Human Tonsil Tissue



#### Western Blotting

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