

## Anti-MyD88 Antibody

Catalog Number: PA1660

### About MYD88

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.

### Overview

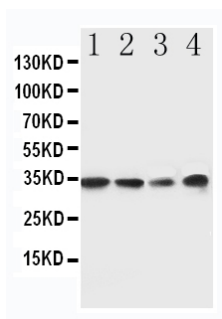
|                      |   |
|----------------------|---|
| Product Name         | Anti-MyD88 Antibody   |
| Reactive Species     | Human, Mouse, Rat   |
| Description          | Boster Bio Anti-MyD88 Antibody catalog # PA1660. Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat.   |
| Application          | IHC, WB   |
| Clonality            | Polyclonal  |
| Formulation          | Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.01 mg NaN3.   |
| Storage Instructions | Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles. |
| Host                 | Rabbit  |
| Uniprot ID           | Q99836  |

### Technical Details

|                               |  |
|-------------------------------|--|
| Immunogen                     | A synthetic peptide corresponding to a sequence in the middle region of human MyD88, different from the related rat and mouse sequences by one amino acid.                       |
| Predicted Reactive Species    | Hamster  |
| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P). |
| Cross Reactivity              | No cross-reactivity with other proteins  |
| Isotype                       | Rabbit IgG   |

|                     |  |
|---------------------|--|
| Form                | Lyophilized  |
| Concentration       | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.  |
| Purification        | Immunogen affinity purified.   |
| Suggested Dilutions | <p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, Rat, Mouse, By Heat</p> <p>Western blot, 0.1-0.5ug/ml, Human, Rat, Mouse</p> |

## Anti-MyD88 Antibody (PA1660) Images



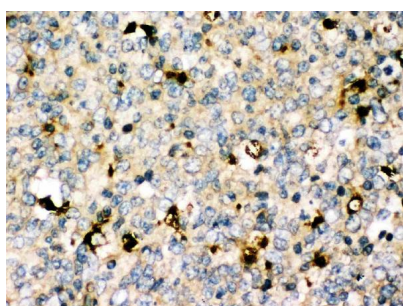
Anti-MyD88 antibody, PA1660, Western blotting

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, PA1660, IHC(P)

IHC(P): Human Tonsil Tissue

## 5 Publications Citing This Product

1. PubMed ID: 32593156, Li X, Shi MQ, Chen C, Du JR. Phthalide derivative CD21 ameliorates ischemic brain injury in a mouse model of global cerebral ischemia: involvement of inhibition of NLRP3. *Int Immunopharmacol*. 2020 Sep;86:106714. doi: 10.1016/j.intimp.2020.106714. Epub 2020 Jun 24
2. PubMed ID: 26468333, High glucose induces and activates Toll-like receptor 4 in endothelial cells of diabetic retinopathy
3. PubMed ID: 25299052, Toll-Like Receptor 4 Prompts Human Breast Cancer Cells Invasiveness via Lipopolysaccharide Stimulation and Is Overexpressed in Patients with Lymph Node Metastasis

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