# Anti-MyD88 (RABBIT) Antibody - 600-401-955

**Code:** 600-401-955 **Size:** 100 µg

**Product Description:** Anti-MyD88 (RABBIT) Antibody - 600-401-955

**Concentration:** 1.0 mg/mL by UV absorbance at 280 nm

**PhysicalState:** Liquid (sterile filtered)

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|---|---|
| **Label** | Unconjugated |
| **Host** | Rabbit |
| **Gene Name** | MYD88 |
| **Species Reactivity** | human, mouse |
| **Buffer** | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 |
| **Stabilizer** | None |
| **Preservative** | 0.01% (w/v) Sodium Azide |
| **Storage Condition** | Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. |
| **Synonyms** | 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 |
| **Application Note** | MYD88 Antibody has been tested for use in ELISA, IHC, ICC, IF, and western blot. Expect a band approximately 33 kDa in size corresponding to MyD88 protein by western blotting in the appropriate cell lysate or extract. Specific conditions for reactivity should be optimized by the end user. |
| **Background** | MyD88 (Myeloid differentiation primary response protein). The pro-inflammatory cytokine IL-1 induced cellular response requires IL-1 receptor complex including IL-1RI and IL-1RAcP. Recently, MyD88 was identified as an adapter molecule in the IL-1 signaling pathway (1). MyD88 associates with and recruits IRAK to the IL-1 receptor complex in response to IL-1 treatment and the dominant negative form of MyD88 attenuates IL-1R-mediated NF-kB activation. MyD88 is also employed as a regulator molecule by IL-18 receptor and human Toll receptor (2,3), both members of the Toll/IL-1R family of receptors. Targeted disruption of the MyD88 gene results in loss of cellular responses to IL-1 and IL-18, and MyD88-deficient mice lack responses to the bacterial product LPS that employs Toll-like receptors 2 and 4 (TLR2 and TLR4) as the signaling receptors. MyD88 is a general adapter protein for the Toll/IL-1R family of receptors and plays an important role in the inflammatory response induced by cytokines IL-1 and IL-18 and endotoxin. The MyD88 gene is expressed in many tissues. Anti-MYD88 Antibody is ideal for investigators involved in NFkappaB, Cytokines and Growth Factor research. |
| **Purity And Specificity** | Anti-MYD88 Antibody was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest cross-reactivity with MYD88 with Human and Mouse based on 100% homology with the immunizing sequence. Cross-reactivity with MYD88 from other sources has not been determined. |
| **Assay Dilutions** | User Optimized |
| **ELISA** | 1:5,000 - 1:20,000 |
| **Immunohistochemistry** | 1:300 - 1:1000 |
| **WESTERN BLOT** | 1:500 - 1:2,000 |
| **IHC** | 1:300 - 1:1000 |
| **OTHER ASSAYS** | User Optimized |
| **Immunogen** | MYD88 Antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to a region near the carboxy terminus of human MyD88 protein. |
| **General Reference** | 1. Muzio M, Ni J, Feng P, Dixit VM. IRAK (Pelle) family member IRAK-2 and MyD88 as proximal mediators of IL-1 signaling. Science 1997;278:1612-5<br><br>2. Adachi O, Kawai T, Takeda K, Matsumoto M, Tsutsui H, Sakagami M, Nakanishi K, Akira S. Targeted disruption of the MyD88 gene results in loss of IL-1- and IL-18-mediated function. Immunity 1998;9:143-50<br><br>3. Medzhitov R, Preston-Hurlburt P, Kopp E, Stadlen A, Chen C, Ghosh S, Janeway CA Jr. MyD88 is an adaptor protein in the hToll/IL-1 receptor family signaling pathways. Mol Cell 1998;2:253-8 |

4. Kawai T, Adachi O, Ogawa T, Takeda K, Akira S. (1999) Unresponsiveness of MyD88-deficient mice to endotoxin. Immunity. 11:115-22 .

**Related Products**

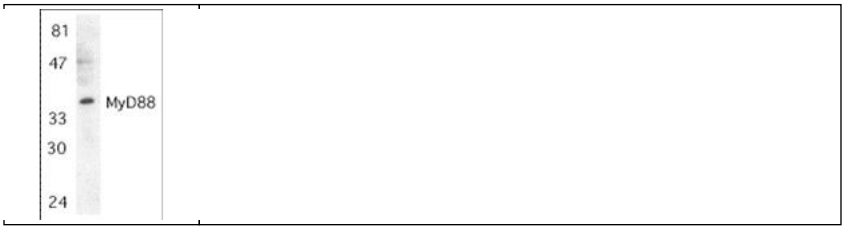
| | |
|---|---|
| 100-401-401 | Anti-AKT (RABBIT) Antibody - 100-401-401 |
| 200-301-268 | Anti-AKT pS473 (MOUSE) Monoclonal Antibody - 200-301-268 |
| 200-301-269 | Anti-AKT pT308 (MOUSE) Monoclonal Antibody - 200-301-269 |
| 200-301-401S | Anti-AKT (MOUSE) Monoclonal Antibody - 200-301-401S |

**Related Links**

| | |
|---|---|
| NCBI | http://www.ncbi.nlm.nih.gov/protein/18202671 |
| UniProtKB | http://www.uniprot.org/uniprot/Q99836 |
| NCBI - 18202671 | http://www.ncbi.nlm.nih.gov/protein/18202671 |
| UniProt - Q99836 | http://www.uniprot.org/uniprot/Q99836 |
| Gene ID - 4615 | http://www.ncbi.nlm.nih.gov/gene/4615 |

**Images**

1 Western blot using Rockland's affinity purified anti-MyD88 antibody shows detection of MyD88 in Jurkat whole cell lysate. The membrane was probed with the primary antibody diluted to 1:500.

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