Product name: Anti-MyD88 antibody
Description: Rabbit polyclonal to MyD88
Host species: Rabbit
Tested applications: Suitable for: WB
Species reactivity: Reacts with: Mouse, Rat, Human
Immunogen: Synthetic peptide corresponding to Human MyD88 aa 279-296 (C terminal).
Sequence: CTKSWFWTRLAKALSLP
(Peptide available as ab7878)
Positive control: Jurkat whole cell lysate.
General notes: 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. MyD88 gene is expressed in many tissues.

Properties
Form: Liquid
Storage instructions: Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer: Preservative: 0.02% Sodium azide
Purity: Immunogen affinity purified
Clonality: Polyclonal
Isotype: IgG

Applications
Our Abpromise guarantee covers the use of ab2064 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
### Function
Adapter protein involved in the Toll-like receptor and IL-1 receptor signaling pathway in the innate immune response. Acts via IRAK1, IRAK2, IRF7 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response. Increases IL-8 transcription. Involved in IL-18-mediated signaling pathway.

### Tissue specificity
Ubiquitous.

### Involvement in disease
Defects in MYD88 are the cause of MYD88 deficiency (MYD88D) [MIM:612260]; also known as recurrent pyogenic bacterial infections due to MYD88 deficiency. Patients suffer from autosomal recessive, life-threatening, often recurrent pyogenic bacterial infections, including invasive pneumococcal disease, and die between 1 and 11 months of age. Surviving patients are otherwise healthy, with normal resistance to other microbes, and their clinical status improved with age.

### Sequence similarities
Contains 1 death domain.
Contains 1 TIR domain.

### Domain
The intermediate domain (ID) is required for the phosphorylation and activation of IRAK.

### Cellular localization
Cytoplasm.

### Images

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<tr>
<th>Application</th>
<th>Abreviews</th>
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<tbody>
<tr>
<td>WB</td>
<td>⭐⭐⭐⭐⭐</td>
<td>1/500 - 1/1000. Detects a band of approximately 35 kDa (predicted molecular weight: 33 kDa). Can be blocked with Human MyD88 peptide (ab7878).</td>
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</tbody>
</table>

**Target**

- **Function**: Adapter protein involved in the Toll-like receptor and IL-1 receptor signaling pathway in the innate immune response. Acts via IRAK1, IRAK2, IRF7 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response. Increases IL-8 transcription. Involved in IL-18-mediated signaling pathway.

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- **Domain**: The intermediate domain (ID) is required for the phosphorylation and activation of IRAK.

- **Cellular localization**: Cytoplasm.

**Images**

- **MyD88 KO**
- **MyD88 WT**

<table>
<thead>
<tr>
<th>Lanes 1-2</th>
<th>Wild type MEFs whole cell lysate</th>
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<tbody>
<tr>
<td>Lanes 3-4</td>
<td>MyD88 knockout MEFs whole cell lysate</td>
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</table>

**Secondary**

- **All lanes**: HRP-conjugated goat anti-rabbit IgG polyclonal at 1/10000 dilution

- **Developed using the ECL technique.**

- **Performed under reducing conditions.**

**Predicted band size**: 33 kDa

**Observed band size**: 33 kDa

**Exposure time**: 15 seconds
Western blot - Anti-MyD88 antibody (ab2064) at 1/500 dilution + Jurkat Whole Cell Lysate

**Predicted band size:** 33 kDa  
**Observed band size:** 35 kDa

Why is the actual band size different from the predicted?

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**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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