

## Product datasheet

# Anti-MyD88 antibody [4D6] ab107585

**KO** VALIDATED

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### Overview

<b>Product name</b>	Anti-MyD88 antibody [4D6]
<b>Description</b>	Mouse monoclonal [4D6] to MyD88
<b>Host species</b>	Mouse
<b>Specificity</b>	Expected to recognise Isoforms 1, 3, 4, 5, CRAa and CRAb.
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt (Intra), WB, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide, corresponding to amino acids 50-100 of Human MyD88 (NP_002459).
<b>Positive control</b>	human ovary, human prostate and Jurkat cell lysates and CF-7 cells. Flow Cyt (Intra): Jurkat cells
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.4 Preservative: 0.05% Sodium azide Constituents: PBS, 0.05% BSA
<b>Purity</b>	Protein G purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	4D6
<b>Isotype</b>	IgG1
<b>Light chain type</b>	kappa

## Applications

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**The Abpromise guarantee** Our [Abpromise guarantee](#) covers the use of ab107585 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		Use 0.5µg for 10 <sup>6</sup> cells. <a href="#">ab170190</a> - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
WB		Use a concentration of 5 - 7 µg/ml. Predicted molecular weight: 33 kDa.
ICC/IF		Use a concentration of 5 µg/ml.

## Target

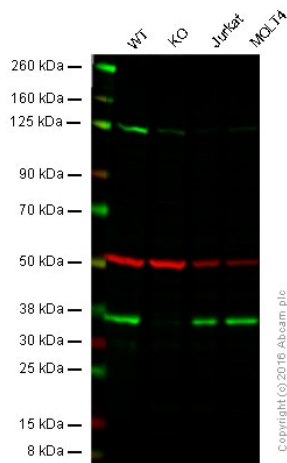
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<b>Function</b>	Adapter protein involved in the Toll-like receptor and IL-1 receptor signaling pathway in the innate immune response. Acts via IRAK1, IRAK2, IRF7 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response. Increases IL-8 transcription. Involved in IL-18-mediated signaling pathway.
<b>Tissue specificity</b>	Ubiquitous.
<b>Involvement in disease</b>	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.
<b>Sequence similarities</b>	Contains 1 death domain. Contains 1 TIR domain.
<b>Domain</b>	The intermediate domain (ID) is required for the phosphorylation and activation of IRAK.
<b>Cellular localization</b>	Cytoplasm.

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## Images

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Western blot - Anti-MyD88 antibody [4D6] (ab107585)

**Lane 1:** Wild-type HAP1 cell lysate (20 µg)

**Lane 2:** MyD88 knockout HAP1 cell lysate (20 µg)

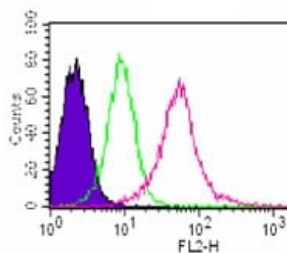
**Lane 3:** Jurkat cell lysate (20 µg)

**Lane 4:** MOLT4 cell lysate (20 µg)

**Lanes 1 - 4:** Merged signal (red and green). Green - ab107585 observed at 37 kDa. Red - loading control, ab176560, observed at 52 kDa.

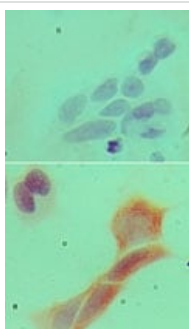
ab107585 was shown to recognize MyD88 when MyD88 knockout samples were used, along with additional cross-reactive bands.

Wild-type and MyD88 knockout samples were subjected to SDS-PAGE. ab107585 and ab176560 (loading control to alpha tubulin) were diluted 5 µg/mL and 1/10000 respectively and incubated overnight at 4°C. Blots were developed with Goat anti-Mouse IgG H&L (IRDye® 800CW) preadsorbed ab216772 and Goat Anti-Rabbit IgG H&L (IRDye® 680RD) preadsorbed ab216777 secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.



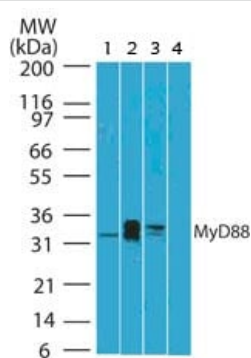
Flow Cytometry (Intracellular) - Anti-MyD88 antibody [4D6] (ab107585)

Intracellular flow cytometric analysis of MyD88 antibody (ab107585) in Jurkat cells (0.5 µg). Shaded histogram represents cells without antibody; green represents isotype control; red represents anti-MyD88 antibody. Secondary antibody- anti-mouse IgG PE conjugated.



Immunocytochemistry/ Immunofluorescence - Anti-MyD88 antibody [4D6] (ab107585)

Immunocytochemical analysis of MyD88 antibody (ab107585) in MCF-7 cells using an isotype control (top) and Myd88 Antibody (5 µg/ml; bottom).



Western blot - Anti-MyD88 antibody [4D6] (ab107585)

**All lanes :** Anti-MyD88 antibody [4D6] (ab107585) at 5 µg/ml

**Lane 1 :** Human ovary cell lysate

**Lane 2 :** Human prostate cell lysate

**Lane 3 :** Jurkat cell lysate

**Lane 4 :** Jurkat cell lysate with Immunizing peptide

#### Secondary

**All lanes :** Goat anti-mouse Ig HRP

**Predicted band size:** 33 kDa

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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