abcam

Product datasheet

Anti-MyD88 antibody [4D6] ab107585

KO VALIDATED

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Overview

Product name	Anti-MyD88 antibody [4D6]
Description	Mouse monoclonal [4D6] to MyD88
Host species	Mouse
Specificity	Espected to recognise Isoforms 1, 3, 4, 5, CRAa and CRAb.
Tested applications	**Suitable for:** Flow Cyt (Intra), WB, ICC/IF
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide, corresponding to amino acids 50-100 of Human MyD88 (NP_002459).
Positive control	human ovary, human prostate and Jurkat cell lysates and CF-7 cells. Flow Cyt (Intra): Jurkat cells
General notes	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. 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&As

Properties

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

Applications

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 10^6 cells. **ab170190** - 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

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.

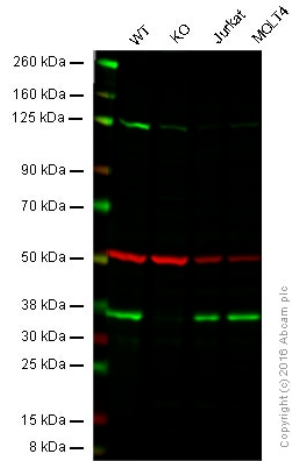
Involvement in disease Defects in MYD88 are the cause of MYD88 deficiency (MYD88D) [MIM:612260]; also known as recurrent pyogenic bacterial infections due to MYD88 deficiency. Patients suffer from autosomal recessive, life-threatening, often recurrent pyogenic bacterial infections, including invasive 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.

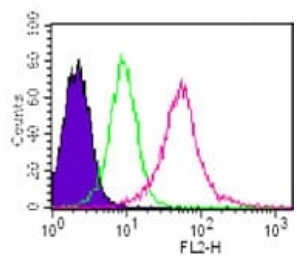
Cellular localization Cytoplasm.

Images



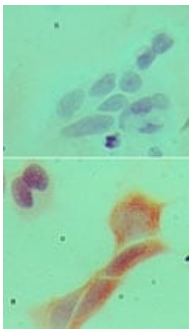
Western blot - Anti-MyD88 antibody [4D6] (ab107585)

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.



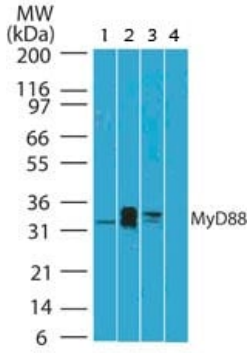
Flow Cytometry (Intracellular) - Anti-MyD88 antibody [4D6] (ab107585)

Intracellular flow cytometric analysis of MyD88 antibody (ab107585) in Jurkat cells (0.5 ug). 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

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