abcam

Product datasheet

Anti-MyD88 antibody [OTI1B4] ab119048

KO VALIDATED

1 References 6 Images

Overview

Product name	Anti-MyD88 antibody [OTI1B4]
Description	Mouse monoclonal [OTI1B4] to MyD88
Host species	Mouse
Tested applications	**Suitable for:** Flow Cyt (Intra), WB, ICC/IF
Species reactivity	**Reacts with:** Human, Recombinant fragment
Immunogen	Recombinant full length protein corresponding to Human MyD88. Database link: **Q99836**
Positive control	WB: HEK293T cell lysate transfected with pCMV6-ENTRY MyD88 cDNA; Jerkat, and MOLT4 cell lysates. Flow Cyt (Intra): HEK293T cells transfected with pCMV6-ENTRY MyD88 overexpression plasmid; HeLa and Jurkat cells. ICC/IF: COS7 cells transiently transfected by pCMV6-ENTRY MyD88; HeLa and Jurkat cells.
General notes	The clone number has been updated from 1B4 to OTI1B4, both clone numbers name the same clone. 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: 7.30 Preservative: 0.02% Sodium azide Constituents: 1% BSA, 50% Glycerol, PBS
Purity	Affinity purified

Purification notes	Purified from cell culture supernatant by affinity chromatography
Clonality	Monoclonal
Clone number	OTI1B4
Isotype	IgG2a

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab119048 in the following tested applications.

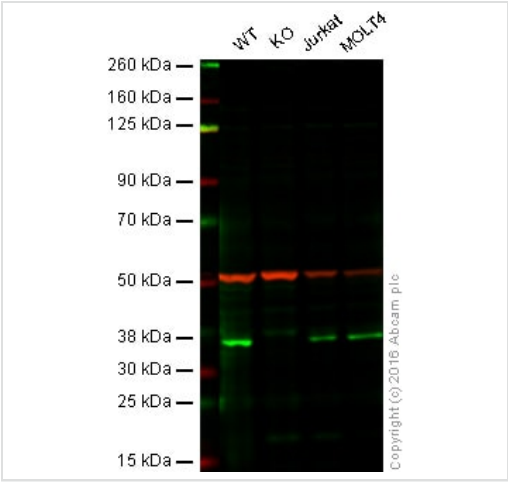
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/100. **ab170191** - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.
WB		1/2000. Predicted molecular weight: 33 kDa.
ICC/IF		1/100.

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.

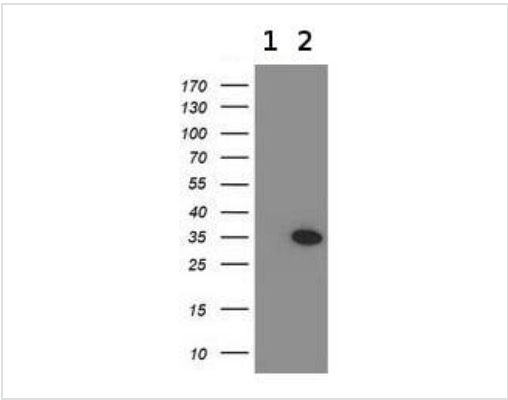
Images



Western blot - Anti-MyD88 antibody [OTI1B4] (ab119048)

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: Molt-4 cell lysate (20 µg)
Lanes 1 - 4: Merged signal (red and green). Green - ab119048 observed at 37 kDa. Red - loading control, **ab176560**, observed at 52 kDa.

ab119048 was shown to specifically react with MyD88 when MyD88 knockout samples were used. Wild-type and MyD88 knockout samples were subjected to SDS-PAGE. Ab119048 and **ab176560** (loading control to alpha Tubulin) were diluted at 1/2000 and 1/10000 dilution respectively and incubated overnight at 4C. Blots were developed with Goat anti-Mouse IgG H&L (IRDye® 800CW) preadsorbed **ab216772** andGoat Anti-Rabbit IgG H&L (IRDye® 680RD) preadsorbed **ab216777** secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.



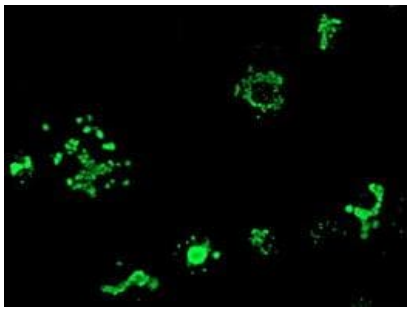
Western blot - Anti-MyD88 antibody [OTI1B4] (ab119048)

All lanes : Anti-MyD88 antibody [OTI1B4] (ab119048) at 1/2000 dilution

Lane 1 : HEK293T lysate transfected with pCMV6-ENTRY control cDNA
Lane 2 : HEK293T lysate transfected with pCMV6-ENTRY MyD88 cDNA

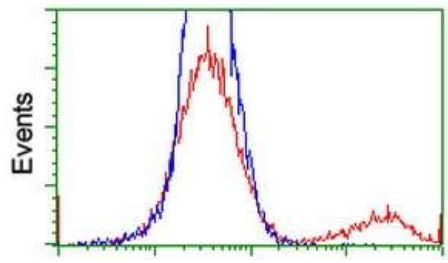
Lysates/proteins at 5 µg per lane.

Predicted band size: 33 kDa



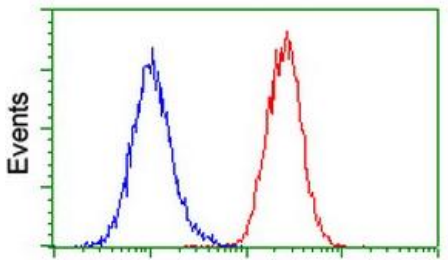
Immunocytochemistry/ Immunofluorescence - Anti-MyD88 antibody [OTI1B4] (ab119048)

ab119048 at 1/100 dilution staining MyD88 in COS7 cells transiently transfected with pCMV6-ENTRY MyD88 by Immunofluorescence.



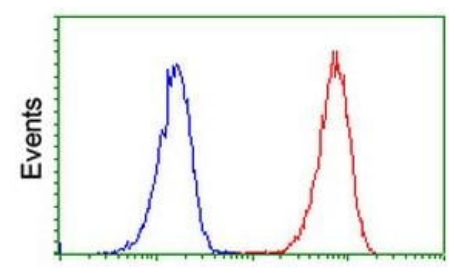
Flow Cytometry (Intracellular) - Anti-MyD88 antibody [OTI1B4] (ab119048)

ab119048 at 1/100 dilution, staining MyD88 in HEK293T cells transfected with pCMV6-ENTRY MyD88 overexpress plasmid(Red), or an empty vector control plasmid (Blue) by Flow Cytometry (Intracellular).



Flow Cytometry (Intracellular) - Anti-MyD88 antibody [OTI1B4] (ab119048)

ab119048 at 1/100 dilution staining MyD88 in HeLa cells by Flow cytometry (Intracellular) (Red) compared to a nonspecific negative control antibody (Blue).



Flow Cytometry (Intracellular) - Anti-MyD88 antibody [OTI1B4] (ab119048)

ab119048 at 1/100 dilution staining MyD88 in Jurkat cells by Flow cytometry (Intracellular) (Red) compared to a nonspecific negative control antibody (Blue).

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