

Product Datasheet

MYD88 Antibody (orb1239635)

Catalog Number	orb1239635
Category	Antibodies
Description	MYD88 Antibody
Target	MYD88
Clonality	Polyclonal
Species/Host	Rabbit
Isotype	IgG
Conjugation	Unconjugated
Reactivity	Human, Mouse, Rat
Predicted Reactivity	Bovine, Gallus, Porcine, Sheep
Form/Appearance	Liquid
Concentration	1 mg/mL
Buffer/Preservatives	MYD88 Antibody is supplied in PBS containing 0.02% sodium azide.
Purification	MYD88 Antibody is affinity chromatography purified via peptide column.
Immunogen	Anti-MYD88 antibody (orb1239635) was raised against a peptide corresponding to 17 amino acids near carboxy terminus of human MYD88 isoform 1. The immunogen is located within the last 50 amino acids of MYD88.
UniProt ID	U70451
MW	Predicted: 35kD Observed: 35kD

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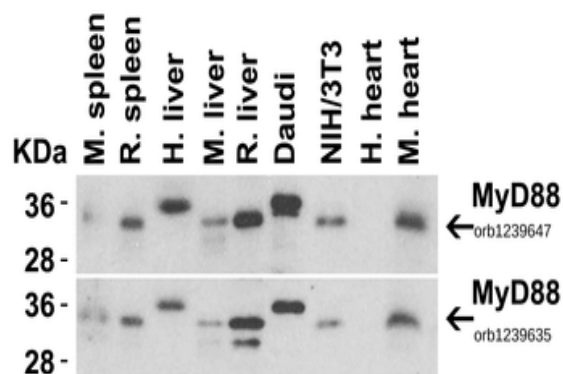
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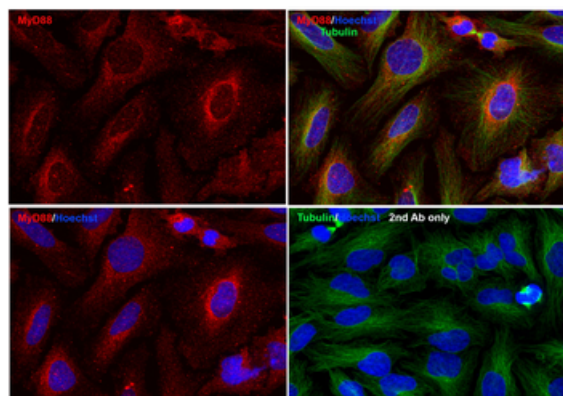
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Tested applications	ELISA, IF, IP, WB
Antibody Type	Primary Antibody
Modifications	None
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
NCBI	AAB49967.1
Expiration Date	12 months from date of receipt.



Animal Species Reactivity. Loading: Lysates/proteins at 15 µg per lane. Antibodies: orb1239647 (2 µg/mL) or orb1239635 (2 µg/mL). 1 h incubation at RT in 5% NFDN/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Immunofluorescence Validation of MyD88 In HeLa Cells. Immunofluorescent analysis of methanol-fixed HeLa cells labeling MyD88 with orb1239635 at 20 µg/mL, followed by goat anti-rabbit IgG secondary antibody at 1/1000 dilution (red) and Hoechst staining (blue). Alpha tubulin was stained with anti-alpha tubulin antibody following by goat anti-mouse IgG secondary antibody (green). Images were captured with confocal microscopy.

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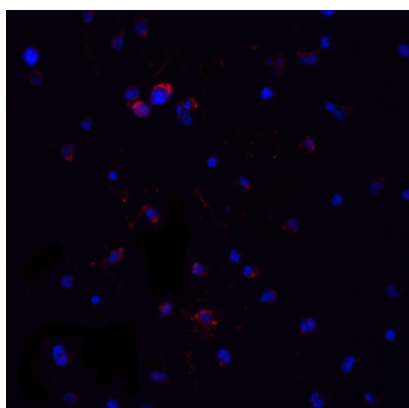
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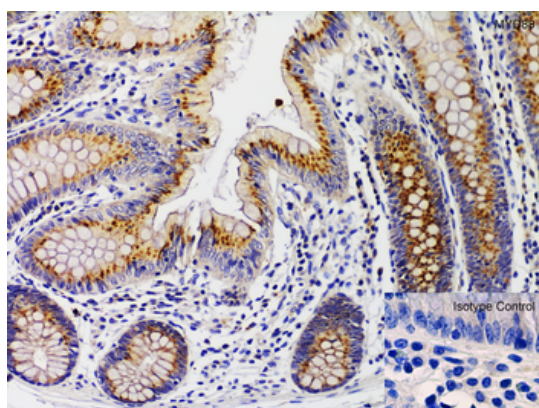
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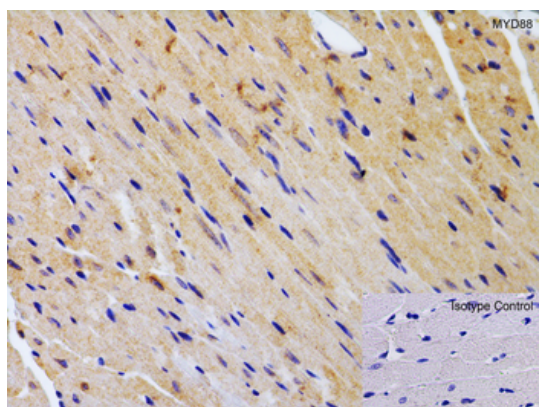
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Immunofluorescence Validation of MyD88 in Jurkat Cells. Immunofluorescent analysis of 4% paraformaldehyde-fixed Jurkat cells labeling MyD88 with orb1239635 at 20 $\mu\text{g}/\text{mL}$, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (red) and DAPI staining (blue).



Immunohistochemistry Validation of MyD88 in Human Colon. Immunohistochemical analysis of paraffin-embedded human colon tissue using anti-MYD88 antibody (orb1239635) at 1 $\mu\text{g}/\text{mL}$. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4°C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



Immunohistochemistry Validation of MyD88 in Mouse Heart. Immunohistochemical analysis of paraffin-embedded mouse heart tissue using anti-MYD88 antibody (orb1239635) at 2 $\mu\text{g}/\text{mL}$. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4°C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.

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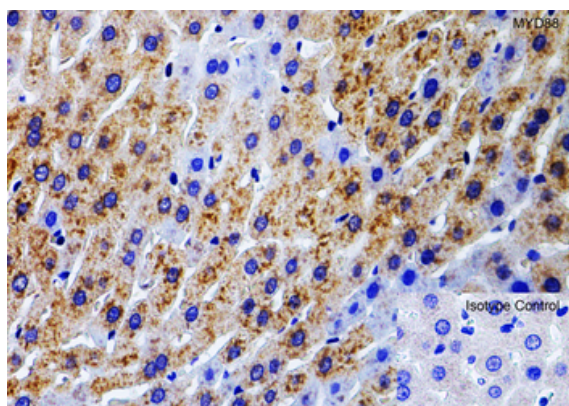
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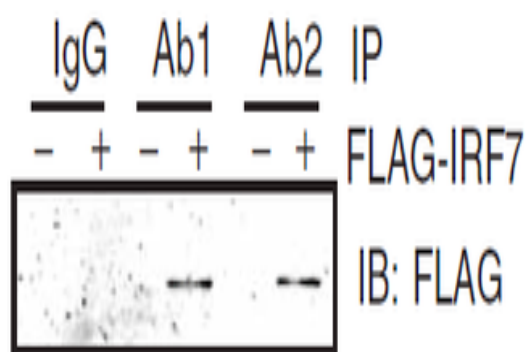
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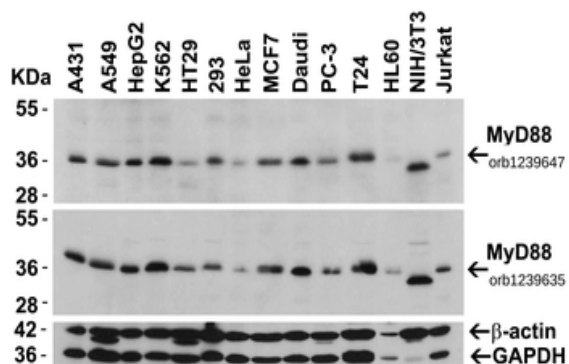
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Immunohistochemistry Validation of MyD88 in Rat Liver. Immunohistochemical analysis of paraffin-embedded rat liver tissue using anti-MYD88 antibody (orb1239635) at 1 µg/mL. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4°C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



Immunoprecipitation Validation in HEK293 cells. HEK293 cells were transiently transfected with FLAG-IRF7. Cell lysates were immunoprecipitated with control rabbit anti-mouse immunoglobulin serum (IgG) or anti-MyD88 (Ab1 and Ab2), followed by immunoblotting with anti-FLAG.



Independent Antibody Validation (IAV) via Protein Expression Profile in Cell Lines. Loading: 15 µg of lysates per lane. Antibodies: MyD88 orb1239647 (2 µg/mL), MyD88 orb1239635 (2 µg/mL), beta-actin (1 µg/mL), and GAPDH (0.02 µg/mL), 1 h incubation at RT in 5% NFDN/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.

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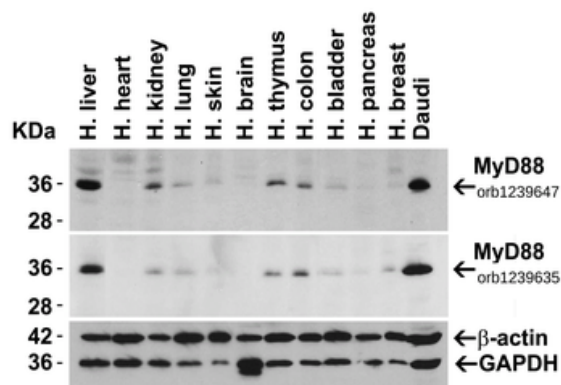
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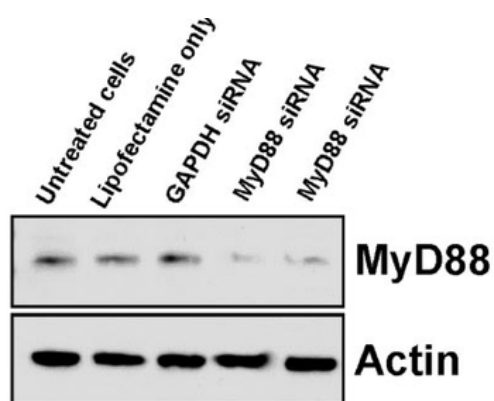
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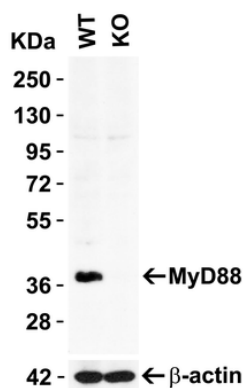
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Independent Antibody Validation (IAV) via Protein Expression Profile in Human Tissues. Loading: 15 µg of lysates per lane. Antibodies: MyD88 orb1239647 (2 µg/mL), MyD88 orb1239635 (2 µg/mL), beta-actin (1 µg/mL), and GAPDH (0.02 µg/mL), 1 h incubation at RT in 5% NFDN/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



KD Validation in Raw 264.7 cells. The Transfection of RAW 264.7 cells with MyD88-specific siRNA resulted in attenuation of MyD88 protein by Western blot analysis with anti-Myd88 antibodies (orb1239635).



KO Validation in HeLa Cells. Loading: 10 µg of HeLa WT cell lysate or MyD88 KO cell lysate. Antibodies: MyD88 orb1239635 (2 µg/mL) and beta-actin orb1240312 (1 µg/mL), 1 h incubation at RT in 5% NFDN/TBST. Secondary: Goat Anti-Rabbit IgG HRP conjugate at 1:10000 dilution.

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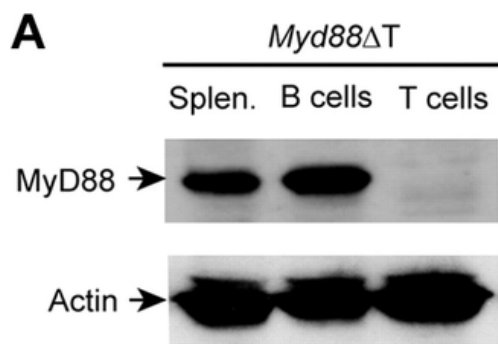
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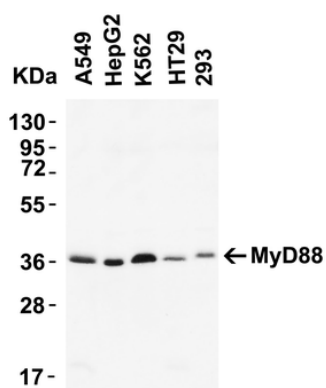
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KO Validation of MyD88 in Mouse T cells. Splenocytes were isolated from a *Myd88 Δ T* mouse in which MyD88 was specifically disrupted in T cells. T and B cells were FACS purified, and MyD88 expression was examined by Western blot with anti-MyD88 antibodies (orb1239635). MyD88 expression was detected in Splenocytes and B cells, but not in T cells.



Western Blot Validation of MyD88 in human cell lines. Loading: 15 μ g of lysates per lane. Antibodies: orb1239635 (2 μ g/mL) 1 h incubation at RT in 5% NFD/MTBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution. Predicted band size: 35 kDa.

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