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MYD88 Antibody (clone 1B4)

Mouse Monoclonal Antibody
Catalog # ALS16959

Specification

MYD88 Antibody (clone 1B4) - Product Information

Application	**IHC, IF, WB, FC**
Primary Accession	Q99836
Other Accession	4615
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG2a**
Calculated MW	**33233**

MYD88 Antibody (clone 1B4) - Additional Information

Gene ID 4615

Other Names
MYD88, MYD88D

Target/Specificity
Human MYD88

Reconstitution & Storage
PBS, pH 7.3, 1% BSA, 50% glycerol, 0.02% sodium azide. Store at -20°C. Minimize freezing and thawing.

Precautions
MYD88 Antibody (clone 1B4) is for research use only and not for use in diagnostic or therapeutic procedures.

MYD88 Antibody (clone 1B4) - Protein Information

Name MYD88 (HGNC:7562)

Function
Adapter protein involved in the Toll-like receptor and IL-1 receptor signaling pathway in the innate immune response (PubMed:15361868, PubMed:18292575, PubMed:33718825). Acts via IRAK1, IRAK2, IRF7 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response (PubMed:15361868, PubMed:24316379, PubMed:19506249). Increases IL-8 transcription (PubMed:<a href="http://www.uniprot.org/citations/9013863"

target="_blank">9013863). Involved in IL-18-mediated signaling pathway. Activates IRF1 resulting in its rapid migration into the nucleus to mediate an efficient induction of IFN-beta, NOS2/INOS, and IL12A genes. Upon TLR8 activation by GU-rich single-stranded RNA (GU-rich RNA) derived from viruses such as SARS-CoV-2, SARS-CoV and HIV-1, induces IL1B release through NLRP3 inflammasome activation (PubMed:33718825). MyD88-mediated signaling in intestinal epithelial cells is crucial for maintenance of gut homeostasis and controls the expression of the antimicrobial lectin REG3G in the small intestine (By similarity).

Cellular Location
Cytoplasm. Nucleus

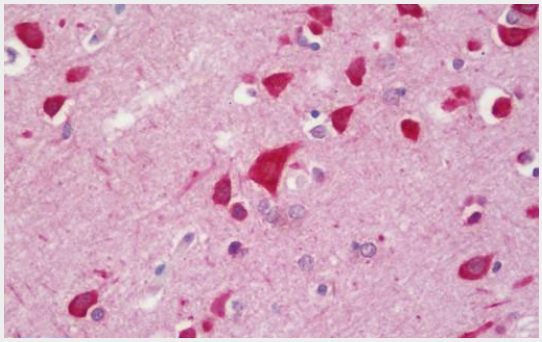
Tissue Location
Ubiquitous..

MYD88 Antibody (clone 1B4) - Protocols

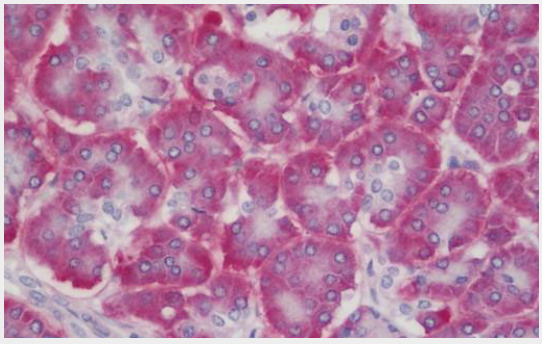
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

MYD88 Antibody (clone 1B4) - Images



Anti-MYD88 antibody IHC staining of human brain, cortex.



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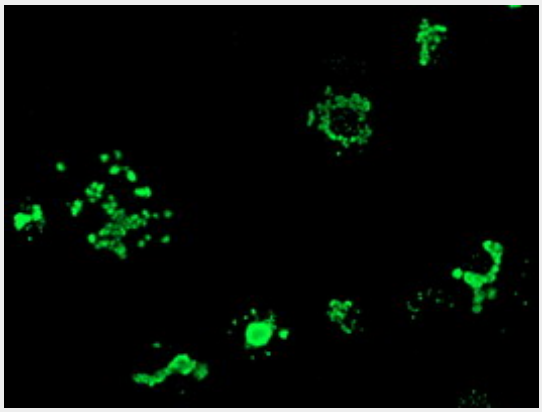
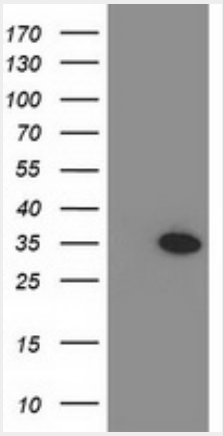
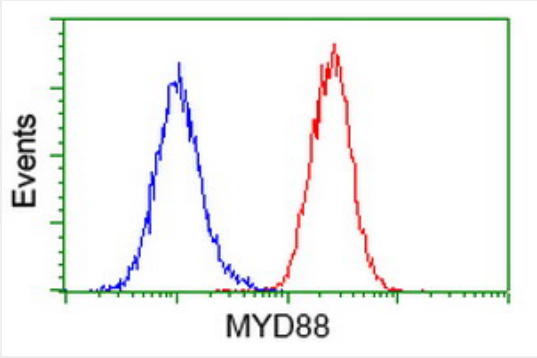
Anti-MYD88 antibody IHC staining of human pancreas.



Anti-MYD88 mouse monoclonal antibody immunofluorescent staining of COS7 cells transiently...



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY MYD88...



Flow cytometry of HeLa cells, using anti-MYD88 antibody (Red), compared to a nonspecific...

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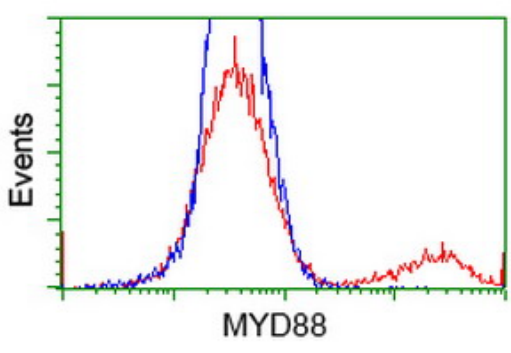
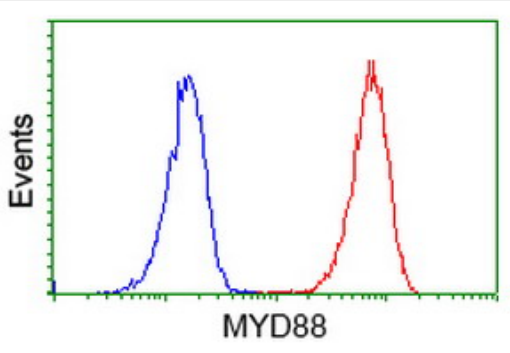


HEK293T cells transfected with either overexpress plasmid (Red) or empty vector control plasmid...



Flow cytometry of Jurkat cells, using anti-MYD88 antibody (Red), compared to a nonspecific...

MYD88 Antibody (clone 1B4) - Background

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. Activates IRF1 resulting in its rapid migration into the nucleus to mediate an efficient induction of IFN-beta, NOS2/INOS, and IL12A genes. MyD88-mediated signaling in intestinal epithelial cells is crucial for maintenance of gut homeostasis and controls the expression of the antimicrobial lectin REG3G in the small intestine.

MYD88 Antibody (clone 1B4) - References

Hardiman G.,et al.Oncogene 13:2467-2475(1996).
Bonnert T.P.,et al.FEBS Lett. 402:81-84(1997).
Nakajima T.,et al.Immunogenetics 60:727-735(2008).
Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).