

MYD88 Antibody (clone 1B4)
Mouse Monoclonal Antibody
Catalog # ALS16959**Specification**

MYD88 Antibody (clone 1B4) - Product Information

Application	IHC, IF, WB, FC
Primary Accession	O99836
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](http://www.uniprot.org/citations/15361868) target="_blank">15361868, PubMed: [18292575](http://www.uniprot.org/citations/18292575) target="_blank">18292575, PubMed: [33718825](http://www.uniprot.org/citations/33718825) target="_blank">33718825, PubMed: [37971847](http://www.uniprot.org/citations/37971847) target="_blank">37971847). Acts via IRAK1, IRAK2, IRF7 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response (PubMed: [15361868](http://www.uniprot.org/citations/15361868) target="_blank">15361868, PubMed: [19506249](http://www.uniprot.org/citations/19506249) target="_blank">19506249, PubMed: [24316379](http://www.uniprot.org/citations/24316379) target="_blank">24316379). Increases

IL-8 transcription (PubMed: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

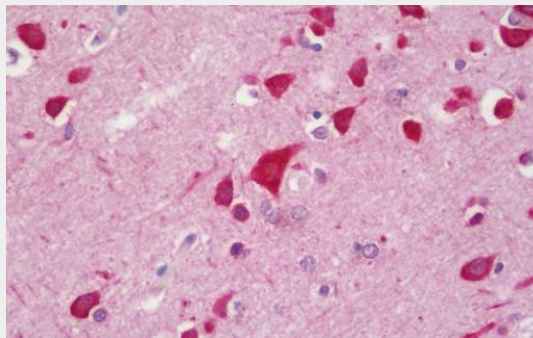
Tissue Location

Ubiquitous..

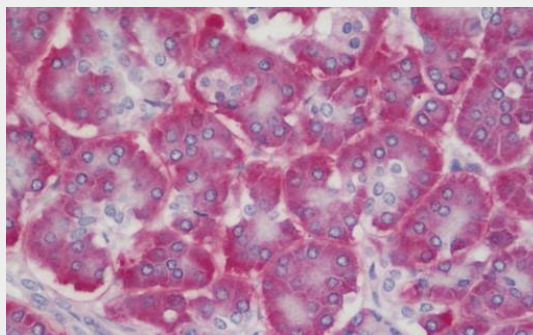
MYD88 Antibody (clone 1B4) - Protocols

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

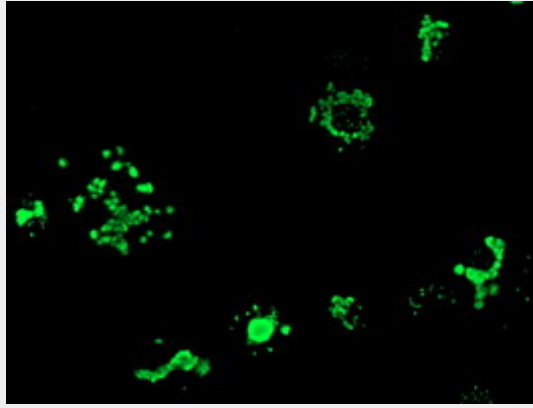
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

MYD88 Antibody (clone 1B4) - Images

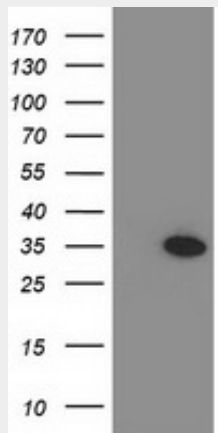
Anti-MYD88 antibody IHC staining of human brain, cortex.



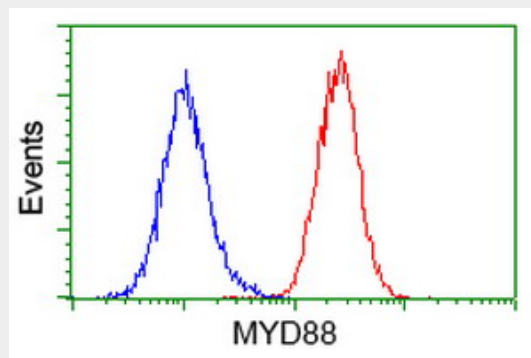
Anti-MYD88 antibody IHC staining of human pancreas.



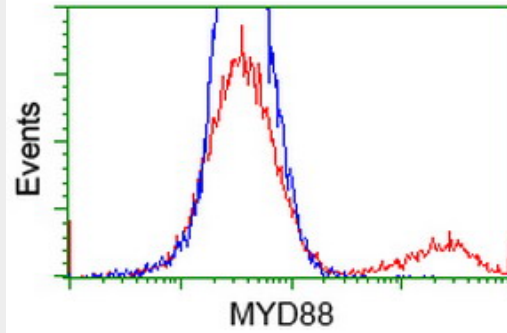
Anti-MYD88 mouse monoclonal antibody immunofluorescent staining of COS7 cells transiently...



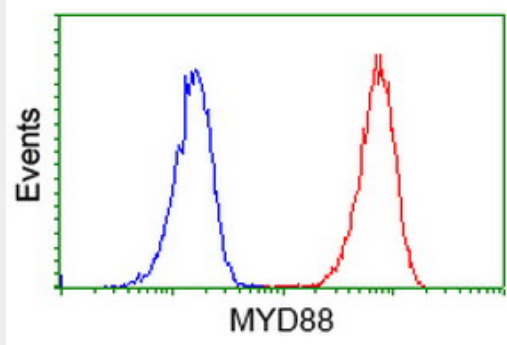
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY MYD88...



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



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).
- Kalnina N., et al. Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
- Ota T., et al. *Nat. Genet.* 36:40-45(2004).