

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

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**MYD88 Antibody (clone 1B4) - Product Information**

Application	IHC, IF, WB, FC
Primary Accession	<a href="#">O99836</a>
Other Accession	<a href="#">4615</a>
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), PubMed: [18292575](http://www.uniprot.org/citations/18292575), PubMed: [33718825](http://www.uniprot.org/citations/33718825), PubMed: [37971847](http://www.uniprot.org/citations/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), PubMed: [19506249](http://www.uniprot.org/citations/19506249), PubMed: [24316379](http://www.uniprot.org/citations/24316379)). Increases

IL-8 transcription (PubMed:<a href="http://www.uniprot.org/citations/9013863" target="\_blank">9013863</a>). 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:<a href="http://www.uniprot.org/citations/33718825" target="\_blank">33718825</a>). 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

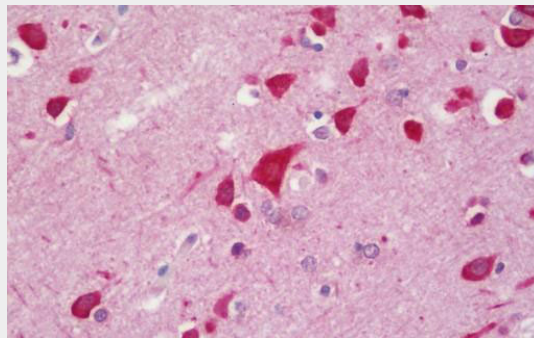
**Tissue Location**

Ubiquitous..

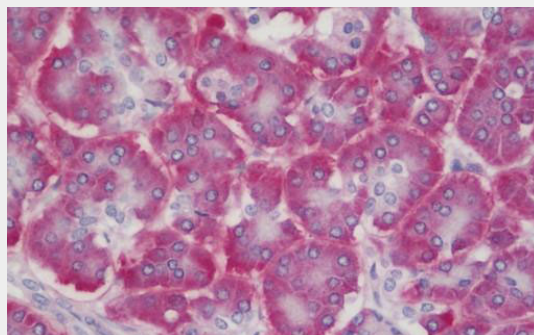
**MYD88 Antibody (clone 1B4) - Protocols**

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

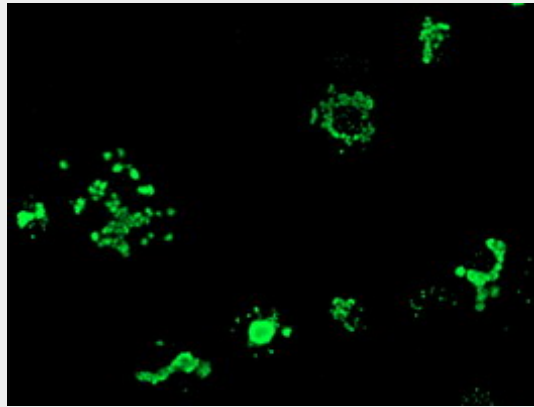
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**MYD88 Antibody (clone 1B4) - Images**

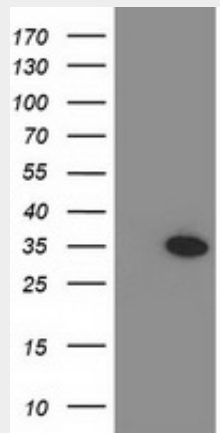
Anti-MYD88 antibody IHC staining of human brain, cortex.



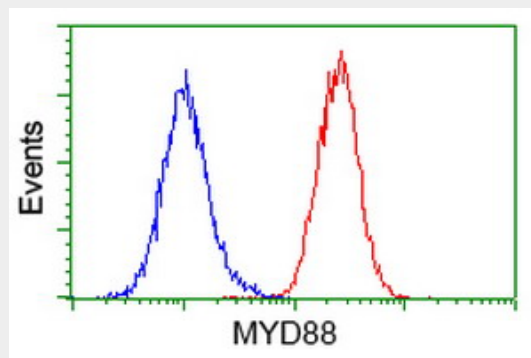
Anti-MYD88 antibody IHC staining of human pancreas.



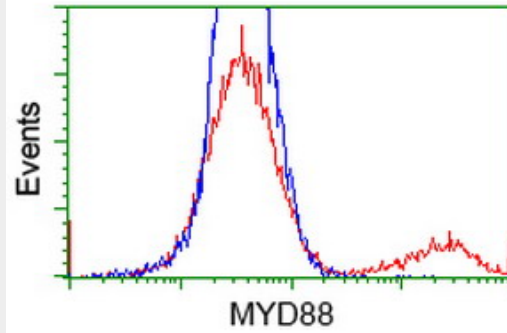
Anti-MYD88 mouse monoclonal antibody immunofluorescent staining of COS7 cells transiently...



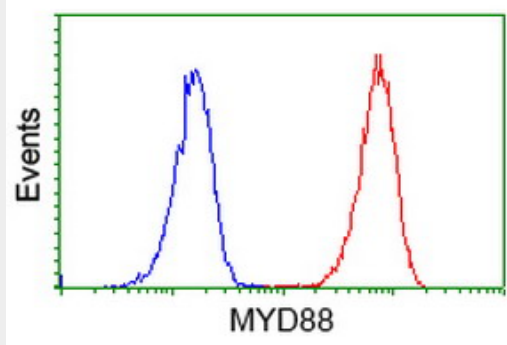
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY MYD88...



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