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Human MyD88 antibody

Catalog Number: ATGA0247

PRODUCT INFORMATION

Catalog number

ATGA0247

Clone No.

AT22F11

Product type

Monoclonal Antibody

UnitProt No.

Q99836

NCBI Accession No.

NP 002459

Alternative Names

Myeloid differentiation primary response protein MyD88, MYD88D

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Human

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human MYD88 (1-309aa) purified from E. coli

Isotype

IgG2b kappa

Purification Note

By protein-A affinity chromatography

Application

ELISA, WB, ICC/IF, FACS

Usage

The antibody has been tested by ELISA, Western blot, ICC/IF and FACS analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.



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Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Myeloid differentiation primary response gene 88 (MYD88) is 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. This protein increases IL-8 transcription. It is involved in IL-18-mediated signaling pathway. MYD88 activates IRF1 resulting in its rapid migration into the nucleus to mediate an efficient induction of IFN-beta, NOS2/INOS, and IL12A genes.

General References

Bonnert TP, et al. (January 1997). FEBS Letters 402 (1): 81-4. Lord KA, et al. (1990). Oncogene 5 (7): 1095-7. Arancibia SA, et al. (2007). Biological research 40 (2): 97-112.

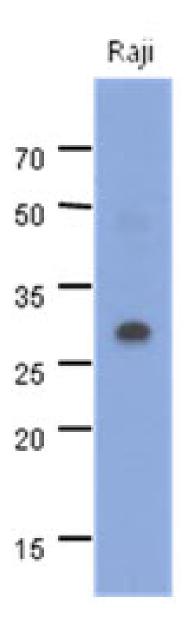
DATA

Western blot analysis (WB)



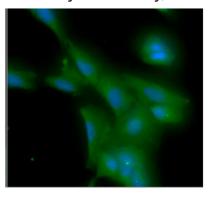
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The cell lysate of Raji (40ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human MYD88 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Immunocytochemistry/Immunofluorescence (ICC/IF)



Flow cytometry (FACS)

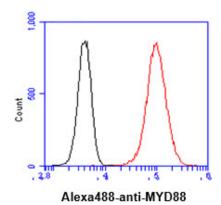
ICC/IF analysis of MYD88 in A549 cells. The cell was stained with ATGA0247 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).



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Flow cytometry analysis of MYD88 in A549 cell line, staining at 2-5ug for 1×10^6 cells (red line). The secondary antibody used goat antimouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).

