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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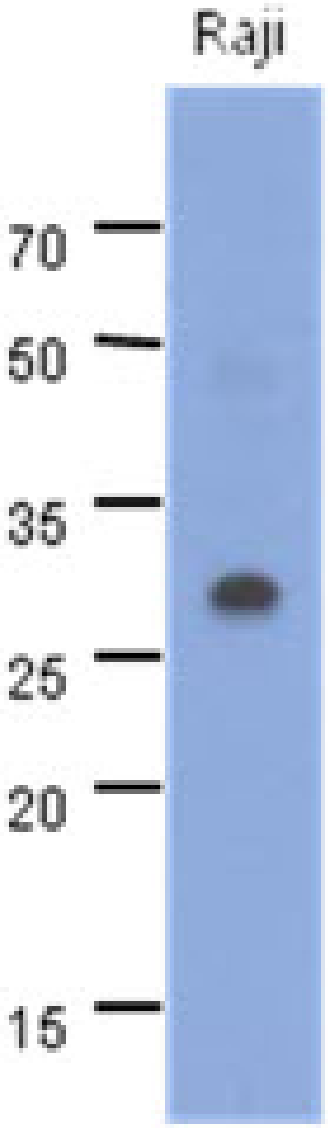
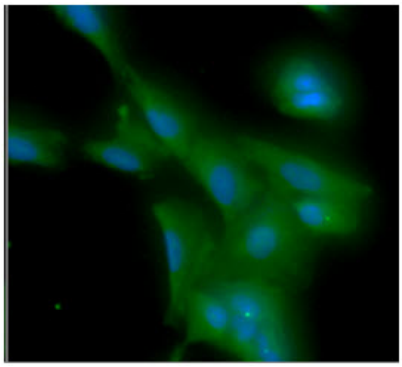


The cell lysate of Raji (40ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human MYD88 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Immunocytochemistry/Immunofluorescence (ICC/IF)



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).

Flow cytometry (FACS)

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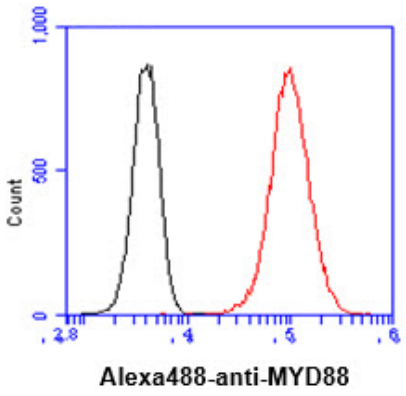

Flow cytometry analysis of MYD88 in A549 cell line, staining at 2-5ug for 1x10^6cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).