

ARG54347 anti-MyD88 antibody

Package: 50 µg
Store at: -20°C

Summary

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|---------------------|---|
| Product Description | Rabbit Polyclonal antibody recognizes MyD88 |
| Tested Reactivity | Hu |
| Tested Application | FACS, ICC/IF, IHC-P, WB |
| Specificity | This antibody recognizes human and mouse MyD88 (35 kD). |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | IgG |
| Target Name | MyD88 |
| Species | Human |
| Immunogen | Peptide corresponding to aa 233-248 of human MyD88. The sequence differs from mouse MyD88 by two amino acids. |
| Conjugation | Un-conjugated |
| Alternate Names | MYD88D; Myeloid differentiation primary response protein MyD88 |

Application Instructions

| Application table | Application | Dilution |
|-------------------|--|-----------------|
| | FACS | Assay-dependent |
| | ICC/IF | 10 µg/ml |
| | IHC-P | 2 µg/ml |
| | WB | 0.5-1 µg/ml |
| Application Note | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. | |
| Positive Control | Jurkat | |

Properties

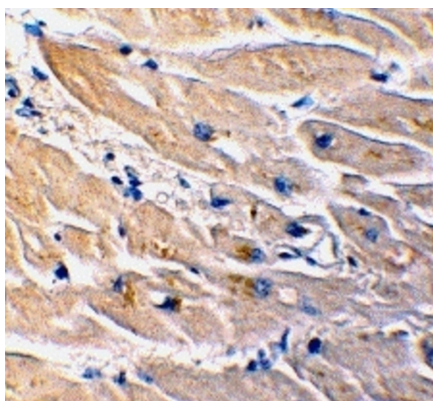
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|---------------------|--|
| Form | Liquid |
| Purification | Immunoaffinity chroma-tography |
| Buffer | PBS (pH 7.4) and 0.02% Sodium azide |
| Preservative | 0.02% Sodium azide |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

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|----------------|---|
| Database links | GeneID: 4615 Human Swiss-port # Q99836 Human |
| Gene Symbol | MYD88 |
| Gene Full Name | myeloid differentiation primary response 88 |
| Background | Cellular responses induced by the pro-inflammatory cytokine IL-1 require IL-1 receptor complex (IL-1R1 and IL-1RacP). Recently, MyD88 was identified as an adapter molecule in the IL-1 signaling pathway. MyD88 associates with and recruits IRAK to the IL-1 receptor. Dominant negative mutants of MyD88 attenuate IL-1R-mediated NF-κB activation. MyD88 also functions as a regulator molecule for IL-18 receptor and human Toll receptor, members of the Toll/IL-1R family of receptors. Targeted disruption of the MyD88 gene results in loss of cellular responses to IL-1 and IL-18, and MyD88-deficient mice lack responses to LPS which require Toll-like receptors 2 and 4 (TLR2 and TLR4) as the signaling receptors. MyD88 is a general adapter protein for the Toll/IL-1R family of receptors and plays an important role in the inflammatory responses induced by cytokines IL-1, IL-18, and LPS. MyD88 is expressed in a variety of tissues. |
| Function | 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. [UniProt] |
| Research Area | Cell Biology and Cellular Response antibody; Immune System antibody; Signaling Transduction antibody |
| Calculated Mw | 33 kDa |

Images



ARG54347 MyD88 antibody IHC validated image

Immunohistochemistry: Human heart tissue stained with ARG54347 MyD88 antibody at 2 µg/ml dilution.