

Polyclonal Antibody to MyD88 (CT)

Catalog No.:	SP6307P
Quantity:	50 µg
Concentration:	0.5 mg/ml
Host:	Rabbit
Immunogen:	Rabbit anti-MyD88 (CT) polyclonal antibody was raised against a peptide corresponding to amino acids 279 to 296 of human MyD88 (5), which are identical to those of mouse. Control Peptide available as SP6307CP.
Applications:	Western blot: 1/500 - 1/1000. Whole cell lysate from Jurkat cells can be used as positive control and an approximately 35 kDa band can be detected. Other applications not tested. Optimal dilutions of this antibody are dependent on conditions and should be determined by the user. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognises human MyD88. It reacts with human and mouse. The pro-inflammatory cytokine IL-1 induced cellular response requires IL-1 receptor complex including IL-1RI and IL-1RAcP. Recently, MyD88 was identified as an adapter molecule in the IL-1 signaling pathway (1). MyD88 associates with and recruits IRAK to the IL-1 receptor complex in response to IL-1 treatment and dominant negative form of MyD88 attenuates IL-1R-mediated NF- κ B activation. MyD88 is also employed as a regulator molecule by IL-18 receptor and human Toll receptor (2, 3), which are members in 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 bacterial product LPS that employs 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 response induced by cytokines IL-1 and IL-18 and endotoxin. MyD88 gene is expressed in many tissues.
Storage:	Store the antibody at 4-8°C for one month or at -20°C for longer. This product should be stored undiluted. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Muzio M, Ni J, Feng P, Dixit VM. IRAK (Pelle) family member IRAK-2 and MyD88 as proximal mediators of IL-1 signaling. <i>Science</i> . 1997 Nov 28;278(5343):1612-5. PubMed PMID: 9374458. 2. Adachi O, Kawai T, Takeda K, Matsumoto M, Tsutsui H, Sakagami M, et al. Targeted disruption of the MyD88 gene results in loss of IL-1- and IL-18-mediated function. <i>Immunity</i> . 1998 Jul;9(1):143-50. PubMed PMID: 9697844. 3. Medzhitov R, Preston-Hurlburt P, Kopp E, Stadlen A, Chen C, Ghosh S, et al. MyD88 is an adaptor protein in the hToll/IL-1 receptor family signaling pathways. <i>Mol Cell</i> . 1998 Aug;2(2):253-8. PubMed PMID: 9734363.

For research and in vitro use only. Not for diagnostic or therapeutic work.

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4. Kawai T, Adachi O, Ogawa T, Takeda K, Akira S. Unresponsiveness of MyD88-deficient mice to endotoxin. *Immunity*. 1999 Jul;11(1):115-22. PubMed PMID: 10435584.
5. Bonnert TP, Garka KE, Parnet P, Sonoda G, Testa JR, Sims JE. The cloning and characterization of human MyD88: a member of an IL-1 receptor related family. *FEBS Lett*. 1997 Jan 27;402(1):81-4. PubMed PMID: 9013863.

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