MyD88 (HFL-296): sc-11356

**BACKGROUND**

Interleukin-1 (IL-1) induced activation of the NFκB pathway is mediated through the IL-1 receptor and the subsequent phosphorylation of IL-1 receptor associated kinase (IRAK). The myeloid differentiation protein MyD88 was originally characterized as a protein upregulated in myeloleukemic cells following IL-6 induced growth arrest and terminal differentiation. MyD88 is now known to functions as an adaptor protein for the association of IRAK with the IL-1 receptor. MyD88 is functionally homologous to the adaptor protein Tube in the TOLL signaling pathway of *Drosophila*, and both proteins are members of the TOLL/IL-1R superfamily. MyD88 contains a characteristic N-terminal death domain that is essential for NFκB activation and an adjacent Toll/IL-1R homology domain (TIR domain). Collectively, these domains enable the protein-protein interactions of MyD88 with IRAK and the IL-1 receptor complex.

**CHROMOSOMAL LOCATION**

Genetic locus: MyD88 (human) mapping to 3p22.2; MyD88 (mouse) mapping to 9 F3.

**SOURCE**

MyD88 (HFL-296) is a rabbit polyclonal antibody raised against amino acids 1-296 of MyD88 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**

MyD88 (HFL-296) is recommended for detection of MyD88 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation (1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

MyD88 (HFL-296) is also recommended for detection of MyD88 in additional species, including equine, canine, bovine and porcine.


Molecular Weight of MyD88: 33 kDa.


**STORAGE**

Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

For research use only, not for use in diagnostic procedures.