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Produktinformation

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Lieferung & Zahlungsart

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- Mindermengenzuschlag
- Trockeneiszuschlag
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- Expressversand

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SANTA CRUZ BIOTECHNOLOGY, INC.

MyD88 (h): 293T Lysate: sc-177585

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 function 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 *Drosophilia*, 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.

REFERENCES

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2. Hardiman, G., Rock, F.L., Balasubramanian, S. Kastelein, R.A. and Bazan, J.F. 1996. Molecular characterization and modular analysis of human MyD88. Oncogene 13: 2467-2475.
3. Muzio, M., Ni, J., Feng, P. and Dixit, V.M. 1997. IRAK (Pelle) family member IRAK-2 and MyD88 as proximal mediators of IL-1 signaling. Science 278: 1612-1615.
4. Adachi, O., Kawai, T., Takeda, K., Matsumoto, M., Tsutsui, H., Sakagami, M., Nakanishi, K. and Akira, S. 1998. Targeted disruption of the MyD88 gene results in loss of IL-1- and IL-18-mediated function. Immunity 9: 143-150.
5. Medzhitov, R., Preston-Hurlburt, P., Kopp, E., Stadlen, A., Chen, C., Ghosh, S. and Janeway, C.A., Jr. 1998. MyD88 is an adaptor protein in the htoll/IL-1 receptor family signaling pathways. Mol. Cell 2: 253-258.
6. Burns, K., Martinon, F., Esslinger, C., Pahl, H., Schneider, P., Bodmer, J.L., Di Marco, F., French, L. and Tschopp, J. 1998. MyD88, an adaptor protein involved in interleukin-1 signaling. J. Biol. Chem. 273: 12203-12209.

CHROMOSOMAL LOCATION

Genetic locus: MYD88 (human) mapping to 3p22.2.

PRODUCT

MyD88 (h): 293T Lysate represents a lysate of human MyD88 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.

APPLICATIONS

MyD88 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive MyD88 antibodies. Recommended use: 10-20 µl per lane.

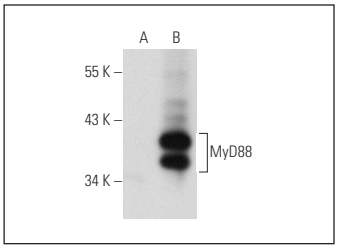
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

MyD88 (B-1): sc-136970 is recommended as a positive control antibody for Western Blot analysis of enhanced human MyD88 expression in MyD88 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

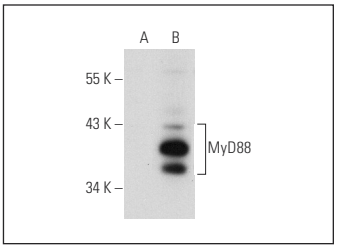
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



MyD88 (B-1): sc-136970. Western blot analysis of MyD88 expression in non-transfected: sc-117752 (**A**) and human MyD88 transfected: sc-177585 (**B**) 293T whole cell lysates.



MyD88 (E-11): sc-74532. Western blot analysis of MyD88 expression in non-transfected: sc-117752 (**A**) and human MyD88 transfected: sc-177585 (**B**) 293T whole cell lysates.

RESEARCH USE

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