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TIRAP (h2): 293T Lysate: sc-170229

BACKGROUND

Mammalian Toll-like receptors (TLRs) recognize conserved products of microbial metabolism and activate NF κ B and other signaling pathways through the adapter protein MyD88. MyD88 functions as an adapter protein in the association of IL-1 receptor associated kinase (IRAK) with the IL-1 receptor. MyD88 contains a characteristic N-terminal death domain, which is essential for NF κ B activation, and an adjacent Toll/IL-1R homology domain (TIR domain), which is responsible for signal transduction. MAL (MyD88 adapter-like), also designated TIR domain-containing adapter protein (TIRAP), MyD88 or TLR-4 adaptor protein, is a cytoplasmic TIR-domain-containing protein that activates NF κ B, Jun amino-terminal kinase and extracellular signal-regulated kinase-1 and -2. MAL forms homodimers and heterodimers with MyD88. IRAK-2 is required for the activation of NF κ B by MAL, but not IRAK, whereas MyD88 requires both IRAKs. MAL associates with IRAK-2 by its TIR domain. In addition, MAL associates with TLR-4, suggesting that it plays a role in TLR-4 signal transduction.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TIRAP (human) mapping to 11q24.2.

PRODUCT

TIRAP (h2): 293T Lysate represents a lysate of human TIRAP transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

STORAGE

Store at -20 $^{\circ}$ C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

APPLICATIONS

TIRAP (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive TIRAP antibodies. Recommended use: 10-20 μ l per lane.

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

RESEARCH USE

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

PROTOCOLS

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