Act1 (WW-18): sc-100647

**BACKGROUND**

Members of the NFκB family of transcription factors are important in regulating the expression of various cellular and viral genes involved in immune and inflammatory responses, cell survival and stress responses. IL-1, TNFα and other related signaling pathways activate transcription factors through the activation of JNK. The NFκB signaling pathway converges with the signal-induced activation of JNK upstream of IKK. Isolated from the human embryonic kidney (HEK) 293 cell line, Act1 is an IKK-γ-associated protein that activates both NFκB and JNK constitutively. Act1, also designated NFκB activator 1 or CIKS (for connection to IKK and SAPK/JNK), may function as a coordinator between two stress-induced signaling pathways.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: TRAF3IP2 (human) mapping to 6q21; Traf3ip2 (mouse) mapping to 13q21.32.

**SOURCE**

Act1 (WW-18) is a mouse monoclonal antibody raised against recombinant Act1 of human origin.

**PRODUCT**

Each vial contains 100 µg IgG2α kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**

Act1 (WW-18) is recommended for detection of Act1 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).

Suitable for use as control antibody for Act1 siRNA (h): sc-298634, Act1 siRNA (m): sc-29635, Act1 shRNA Plasmid (h): sc-29634-SH, Act1 shRNA Plasmid (m): sc-29635-SH, Act1 shRNA (h) Lentiviral Particles: sc-29634-V and Act1 shRNA (m) Lentiviral Particles: sc-29635-V.

Molecular Weight of Act1: 72 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227, Hep G2 nuclear extract: sc-364819 or HeLa nuclear extract: sc-2120.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgG BP-HRP: sc-516102 or m-IgG 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.
2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

**DATA**

**SELECT PRODUCT CITATIONS**


**STORAGE**

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

**RESEARCH USE**

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