BACKGROUND
Tumor necrosis factor receptor-associated factor 6 (TRAF6) regulates adaptive immunity, innate immunity and bone metabolism. TRAF6 is a ubiquitin (Ub) ligase that mediates the activation of protein kinases, such as transforming growth factor beta-activated kinase (TAK1) and IκB kinase (IKK), by catalyzing the formation of a unique polyubiquitin chain linked through Lys63 of Ub. TRAF6 is essential for activating NFκB signaling pathway in response to interleukin-1 and Toll-like receptor ligands. The coiled-coil domain of TRAF6 is essential for its auto-ubiquitination and activating NFκB signaling pathway. TRAF6 interacts with various protein kinases including IRAK1/IRAK, SRC and PKCζ, which provides a link between distinct signaling pathways.

REFERENCES

CHROMOSOMAL LOCATION
Genetic locus: TRAF6 (human) mapping to 11p12; Traf6 (mouse) mapping to 2 E2.

SOURCE
TRAF6 (S-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of TRAF6 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.

Blocking peptide available for competition studies, sc-33895 P (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

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

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

APPLICATIONS
TRAF6 (S-20) is recommended for detection of TRAF6 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (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 TRAF6 siRNA (h): sc-36717, TRAF6 siRNA (h2): sc-44329 and TRAF6 siRNA (m): sc-36718.

Molecular Weight of TRAF6: 60 kDa.

Positive Controls: mouse kidney extract: sc-2255, HeLa whole cell lysate: sc-2200 or WEHI-231 whole cell lysate: sc-2213.

RECOMMENDED SECONDARY REAGENTS
To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:200) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

SELECT PRODUCT CITATIONS

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