BACKGROUND
Ubiquitination is an important mechanism through which three classes of enzymes act in concert to target short-lived or abnormal proteins for destruction. The three classes of enzymes involved in ubiquitination are the ubiquitin-activating enzymes (E1s), the ubiquitin-conjugating enzymes (E2s) and the ubiquitin-protein ligases (E3s). RFFL, also known as RNF189, RNF34L or Rififylin, is a 363 amino acid protein that localizes to both the cytoplasm and to the membrane and contains one FYVE-type zinc finger, one RING-type zinc finger and two SAP domains. Expressed ubiquitously with increased expression in testis, spleen, ovary and prostate, RFFL functions as an E3 ubiquitin-protein ligase that interacts with caspase-8 and caspase-10 and targets them for proteasomal degradation. Multiple isoforms of RFFL exist due to alternative splicing events.

REFERENCES

CHROMOSOMAL LOCATION
Genetic locus: RFFL (human) mapping to 17q12; Rffl (mouse) mapping to 11 C.

SOURCE
RFFL (L-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of RFFL 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-165351 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-165351 X, 200 µg/0.1 ml.

APPLICATIONS
RFFL (L-14) is recommended for detection of RFFL 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 1:30-1:300).

RFFL (L-14) is also recommended for detection of RFFL in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for RFFL siRNA (h): sc-93845, RFFL siRNA (m): sc-152823, RFFL shRNA Plasmid (h): sc-93845-SH, RFFL shRNA Plasmid (m): sc-152823-SH, RFFL shRNA (h) Lentiviral Particles: sc-93845-V and RFFL shRNA (m) Lentiviral Particles: sc-152823-V.

RFFL (L-14) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of RFFL: 41 kDa.

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: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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.

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