

# TRIP12 (C-15): sc-138709

## BACKGROUND

Thyroid hormone receptors (TRs) are transcription factors that regulate the expression of specific genes in a hormone-dependent manner. TRIP12 (thyroid hormone receptor interactor 12) is a 1,992 amino acid E3 ubiquitin ligase involved in the human ubiquitin fusion degradation (UFD) pathway. TRIP12 also modulates the NEDD8 pathway, a series of steps implicated in signal transduction and cell cycle progression, where it influences APPBP1 degradation by catalyzing its ubiquitination. A member of the UPL family and K-HECT subfamily, TRIP12 contains one WWE domain and a single HECT (E6AP-type E3 ubiquitin-protein ligase) domain suggested to contain a non-covalent ubiquitin-binding site. Subject to post-translational phosphorylation upon DNA damage, TRIP12 expression is highest in testis and skeletal muscle, and has also been found in heart, spleen, thymus, ovary, placenta, kidney, prostate and peripheral blood leukocytes at lower levels.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: TRIP12 (human) mapping to 2q36.3; Trip12 (mouse) mapping to 1 C5.

## SOURCE

TRIP12 (C-15) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the C-terminus of TRIP12 of human origin.

## PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-138709 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

TRIP12 (C-15) is recommended for detection of TRIP12 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other TRIP family members.

TRIP12 (C-15) is also recommended for detection of TRIP12 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for TRIP12 siRNA (h): sc-94390, TRIP12 siRNA (m): sc-154678, TRIP12 shRNA Plasmid (h): sc-94390-SH, TRIP12 shRNA Plasmid (m): sc-154678-SH, TRIP12 shRNA (h) Lentiviral Particles: sc-94390-V and TRIP12 shRNA (m) Lentiviral Particles: sc-154678-V.

Molecular Weight of TRIP12: 220 kDa.

Positive Controls: HL-60 nuclear extract: sc-2147, HeLa whole cell lysate: sc-2200 or Caki-1 cell lysate: sc-2224.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker<sup>™</sup> compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz<sup>™</sup> 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](http://www.scbt.com) or our catalog for detailed protocols and support products.