

# TRABID (C-13): sc-135536

## BACKGROUND

TRABID (TRAF-binding domain-containing protein), also known as ZRANB1 (zinc finger Ran-binding domain-containing protein 1), is a 708 amino acid cytoplasmic and nuclear protein that is widely expressed. Belonging to the peptidase C64 family, TRABID is considered a positive regulator of the Wnt signaling pathway that specifically cleaves 'Lys-63'-linked ubiquitin chains. TRABID acts by deubiquitinating APC, a negative regulator of Wnt-mediated transcription. TRABID contains a OTU domain, which mediates the deubiquitinating activity, and three RanBP2-type zinc fingers that mediate the specific interaction with 'Lys-63'-linked ubiquitin. It is suggested that TRABID may also modulate TNF $\alpha$  signaling. The gene encoding TRABID is located on chromosome 10, which houses over 1,200 genes and comprises nearly 4.5% of the human genome.

## REFERENCES

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- Deloukas, P., et. al. 2004. The DNA sequence and comparative analysis of human chromosome 10. *Nature* 429: 375-381.
- Komander, D. and Barford, D. 2008. Structure of the A20 OTU domain and mechanistic insights into deubiquitination. *Biochem. J.* 409: 77-85.
- Tran, H., Hamada, F., Schwarz-Romond, T. and Bienz, M. 2008. Trabid, a new positive regulator of Wnt-induced transcription with preference for binding and cleaving K63-linked ubiquitin chains. *Genes Dev.* 22: 528-542.
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## CHROMOSOMAL LOCATION

Genetic locus: ZRANB1 (human) mapping to 10q26.13; Zranb1 (mouse) mapping to 7 F3.

## SOURCE

TRABID (C-13) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the C-terminus of TRABID of human origin.

## PRODUCT

Each vial contains 100  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-135536 P, (100  $\mu$ g 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 MSDS required.

## RESEARCH USE

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

## APPLICATIONS

TRABID (C-13) is recommended for detection of TRABID of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)], 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).

Suitable for use as control antibody for TRABID siRNA (h): sc-90499, TRABID siRNA (m): sc-154577, TRABID shRNA Plasmid (h): sc-90499-SH, TRABID shRNA Plasmid (m): sc-154577-SH, TRABID shRNA (h) Lentiviral Particles: sc-90499-V and TRABID shRNA (m) Lentiviral Particles: sc-154577-V.

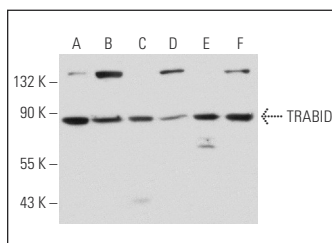
Molecular Weight of TRABID: 81 kDa.

Positive Controls: A-431 whole cell lysate: sc-2201, HeLa whole cell lysate: sc-2200 or HISM cell lysate: sc-2229.

## 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.

## DATA



TRABID (C-13): sc-135536. Western blot analysis of TRABID expression in A-431 (A), HeLa (B), HISM (C), Hep G2 (D), NIH/3T3 (E) and HEK293 (F) whole cell lysates.

## PROTOCOLS

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