

# TRIM60 (S-20): sc-165783

## BACKGROUND

TRIM60 (tripartite motif-containing 60, RING finger protein 23, RING finger protein 129) is a 471 amino acid protein that contains one RING-type zinc finger, one B30.2/SPRY domain and one B box-type zinc finger. Tripartite motif (TRIM) proteins play important roles in a variety of cellular functions including cell proliferation, differentiation, development, oncogenesis, and apoptosis. The TRIM family of proteins are characterized by a conserved TRIM domain that includes a coiled-coil region, a B-box type zinc finger, one RING finger and three zinc-binding domains. TRIM60 is thought to be involved in protein-protein and protein-DNA interactions. It is believed the Trim60 gene is temporally transcribed in the preimplantation embryo before being silenced at the blastocyst stage but Trim60 expression is detected in adult testis of the mouse. The gene encoding TRIM60 maps to human chromosome 3, which houses over 1,100 genes, including a chemokine receptor (CKR) gene cluster and a variety of human cancer-related gene loci.

## REFERENCES

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2. Chang, R., et al. 2002. Molecular cloning, mapping and characterization of a novel mouse RING finger gene, Mrf1. *Gene* 291: 241-249.
3. Short, K.M. and Cox, T.C. 2006. Subclassification of the RBCC/TRIM superfamily reveals a novel motif necessary for microtubule binding. *J. Biol. Chem.* 281: 8970-8980.
4. Woo, J.S., et al. 2006. Structural basis for protein recognition by B30.2/SPRY domains. *Mol. Cell* 24: 967-976.
5. Tao, H., et al. 2008. Structure of the MID1 tandem B-boxes reveals an interaction reminiscent of intermolecular ring heterodimers. *Biochemistry* 47: 2450-2457.
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## CHROMOSOMAL LOCATION

Genetic locus: TRIM60 (human) mapping to 4q32.3.

## SOURCE

TRIM60 (S-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TRIM60 of human origin.

## STORAGE

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

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-165783 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

TRIM60 (S-20) is recommended for detection of TRIM60 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)], 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); non cross-reactive with other TRIM family members.

Suitable for use as control antibody for TRIM60 siRNA (h): sc-89310, TRIM60 shRNA Plasmid (h): sc-89310-SH and TRIM60 shRNA (h) Lentiviral Particles: sc-89310-V.

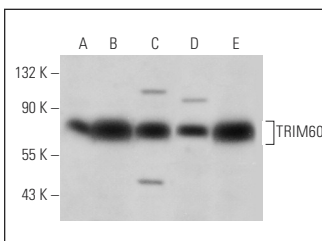
Molecular Weight of TRIM60: 55 kDa.

Positive Controls: human small intestine extract: sc-364225, human testis extract: sc-363781 or human liver extract: sc-363766.

## 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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

## DATA



TRIM60 (S-20): sc-165783. Western blot analysis of TRIM60 expression in human fetal brain (A), human small intestine (B), human testis (C), human liver (D) and human heart (E) tissue extracts.

## RESEARCH USE

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