TRIM8 (B-3): sc-398878

BACKGROUND

The tripartite motif (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. TRIM8 (tripartite motif containing 8), also known as GERP (glioblastoma-expressed RING finger protein) or RNF27 (RING finger protein 27), is a 551 amino acid protein that is thought to function as an E3 ubiquitin-protein ligase that promotes SOCS-1 proteasomal degradation. As a widely expressed homodimer, TRIM8 localizes to nuclear bodies and contains two B box-type zinc fingers and one RING-type zinc finger. TRIM8 is expressed in lung, heart, brain and skeletal muscle, with low levels detected in intestine, placenta, leukocytes and liver. The gene encoding TRIM8 maps to human chromosome 10q24.32.

REFERENCES


CHROMOSOMAL LOCATION

Genetic locus: TRIM8 (human) mapping to 10q24.32, Trim8 (mouse) mapping to 19 C3.

SOURCE

TRIM8 (B-3) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 525-551 at the C-terminus of TRIM8 of human origin.

PRODUCT

Each vial contains 200 µg IgG, kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

TRIM8 (B-3) is available conjugated to agarose (sc-398878 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-398878 HRP), 200 µg/ml, for WB, (HCIP) and ELISA; to either phycoerythrin (sc-398878 PE), fluorescein (sc-398878 FITC), Alexa Fluor® 488 (sc-398878 AF488), Alexa Fluor® 546 (sc-398878 AF546), Alexa Fluor® 594 (sc-398878 AF594) or Alexa Fluor® 647 (sc-398878 AF647), 200 µg/ml, for WB (RGB), IF, HCIP and FCM; and to either Alexa Fluor® 680 (sc-398878 AF680) or Alexa Fluor® 790 (sc-398878 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-398878 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

RESEARCH USE

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

APPLICATIONS

TRIM8 (B-3) is recommended for detection of TRIM8 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg 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).

Suitable for use as control antibody for TRIM8 siRNA (h): sc-90801, TRIM8 siRNA (m): sc-154672, TRIM8 shRNA Polisad (h): sc-90801-SH, TRIM8 shRNA Polisad (m): sc-154672-SH, TRIM8 shRNA (h) Lentiviral Particles: sc-90801-V and TRIM8 shRNA (m) Lentiviral Particles: sc-154672-V.

Molecular Weight of TRIM8: 61 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, Hep G2 cell lysate: sc-2227 or Jurkat whole cell lysate: sc-2204.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:

1) Western Blotting: use m-IgG B/P-HRP (sc-516102) or m-IgG B/P-HRP (Cruz Marker); sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgG B/P-FC (sc-516140 or m-IgG B/P-PE: sc-516141 (dilution range 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA

SELECT PRODUCT CITATIONS


STORAGE

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

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