TPRG1 (T-15): sc-102514



The Power to Question

BACKGROUND

Chromosome 3 is made up of about 214 million bases encoding over 1,100 genes. Notably, there is a chemokine receptor gene cluster and a variety of human cancer related loci on chromosome 3. Particular regions of the chromosome 3 short arm are deleted in many types of cancer cells. Key tumor suppressing genes on chromosome 3 encode apoptosis mediator RASSF1, cell migration regulator HYAL1 and angiogenesis suppressor SEMA3B. Marfan syndrome, porphyria, von Hippel-Lindau syndrome, osteogenesis imperfecta and Charcot-Marie-Tooth Disease are a few of the numerous genetic diseases associated with chromosome 3. The TPRG1 gene product has been provisionally designated TPRG1 pending further characterization.

REFERENCES

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- Yue, Y., et al. 2005. Comparative cytogenetics of human chromosome 3q21.3 reveals a hot spot for ectopic recombination in hominoid evolution. Genomics 85: 36-47.
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CHROMOSOMAL LOCATION

Genetic locus: TPRG1 (human) mapping to 3q28; Tprg (mouse) mapping to 16 B1.

SOURCE

TPRG1 (T-15) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of TPRG1 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-102514 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TPRG1 (T-15) is recommended for detection of TPRG1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ 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).

FAM79B (T-15) is also recommended for detection of TPRG1 in additional species, including equine.

Suitable for use as control antibody for TPRG1 siRNA (h): sc-78383, TPRG1 siRNA (m): sc-154574, TPRG1 shRNA Plasmid (h): sc-78383-SH, TPRG1 shRNA Plasmid (m): sc-154574-SH, TPRG1 shRNA (h) Lentiviral Particles: sc-78383-V and TPRG1 shRNA (m) Lentiviral Particles: sc-154574-V.

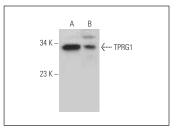
Molecular Weight of TPRG1: 31 kDa.

Positive Controls: U-87 MG cell lysate: sc-2411 or MDA-MB-231 cell lysate: sc-2232.

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™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 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™ Mounting Medium: sc-24941.

DATA



TPRG1 (T-15): sc-102514. Western blot analysis of TPRG1 expression in U-87 MG (**A**) and MDA-MB-231 (**B**) whole cell lysates.

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.

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