TNRC6B (P-15): sc-86914



The Power to Question

BACKGROUND

TNRC6B (trinucleotide repeat containing 6B), also known as KIAA1093, is a 1,723 amino acid protein that exists as 2 alternatively spliced isoforms and is thought to be involved in mRNA cleavage events. Expressed ubiquitously, TNRC6B contains one glycine/tryptophan (GW)-rich N-terminal domain, one central glutamine-rich region and one C-terminal RNA recognition motif and is encoded by a gene that maps to human chromosome 22. Mutations in several of the genes that map to chromosome 22 are involved in the development of Phelan-McDermid syndrome, neurofibromatosis type 2, autism and schizophrenia. Additionally, translocations between chromosomes 9 and 22 may lead to the formation of the Philadelphia chromosome and the subsequent production of the novel fusion protein Bcr-Abl, a potent cell proliferation activator found in several types of leukemias.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TNRC6B (human) mapping to 22q13.1; Tnrc6b (mouse) mapping to 15 E1.

SOURCE

TNRC6B (P-15) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of TNRC6B 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-86914 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TNRC6B (P-15) is recommended for detection of TNRC6B of mouse and human origin by Western Blotting (starting dilution 1:200, 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).

TNRC6B (P-15) is also recommended for detection of TNRC6B in additional species, including equine.

Suitable for use as control antibody for TNRC6B siRNA (h): sc-76704, TNRC6B siRNA (m): sc-154546, TNRC6B shRNA Plasmid (h): sc-76704-SH, TNRC6B shRNA Plasmid (m): sc-154546-SH, TNRC6B shRNA (h) Lentiviral Particles: sc-76704-V and TNRC6B shRNA (m) Lentiviral Particles: sc-76704-V

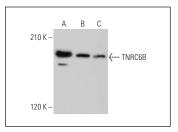
Molecular Weight of TNRC6B: 183 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, HEK293 whole cell lysate: sc-45136 or Raji whole cell lysate: sc-364236.

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



TNRC6B (P-15): sc-86914. Western blot analysis of TNRC6B expression in HeLa (**A**), Raji (**B**) and HEK293 (**C**) 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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