

# TNRC6B (C-14): sc-86913

## 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 (C-14) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping at the C-terminus of TNRC6B of human origin.

## RESEARCH USE

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

## 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-86913 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

TNRC6B (C-14) is recommended for detection of TNRC6B of mouse and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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 (C-14) is also recommended for detection of TNRC6B in additional species, including equine, bovine, porcine and avian.

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-154546-V.

Molecular Weight of TNRC6B: 183 kDa.

## 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) 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.

## STORAGE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.