

# TBC1D24 (P-14): sc-137821

## BACKGROUND

TBC1D24 (TBC1 domain family member 24) is a 559 amino acid cytoplasmic protein that may act as a GTPase-activating protein for Rab family proteins and exists as 2 alternatively spliced isoforms. TBC1D24 contains one Rab-GAP TBC domain, one TLD domain and interacts with ARF6. Involved in neuronal projection development, probably through a negative modulation of ARF6 function, TBC1D24 is highly expressed in brain. TBC1D24 is also expressed in testis, skeletal muscle, heart, kidney, lung and liver. Defects in the TBC1D24 gene are the cause of familial infantile myoclonic epilepsy (FIME), which is characterized as a subtype of idiopathic epilepsy starting in early infancy and manifesting as myoclonic seizures, febrile convulsions and tonic-clonic seizures. The gene that encodes TBC1D24 contains 28,353 bases and maps to human chromosome 16p13.3.

## CHROMOSOMAL LOCATION

Genetic locus: TBC1D24 (human) mapping to 16p13.3; Tbc1d24 (mouse) mapping to 17 A3.3.

## SOURCE

TBC1D24 (P-14) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of TBC1D24 of human origin.

## PRODUCT

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

Blocking peptide available for competition studies, sc-137821 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## STORAGE

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

## APPLICATIONS

TBC1D24 (P-14) is recommended for detection of TBC1D24 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other TBC1D family members.

TBC1D24 (P-14) is also recommended for detection of TBC1D24 in additional species, including equine, canine, bovine and avian.

Suitable for use as control antibody for TBC1D24 siRNA (h): sc-93059, TBC1D24 siRNA (m): sc-154103, TBC1D24 shRNA Plasmid (h): sc-93059-SH, TBC1D24 shRNA Plasmid (m): sc-154103-SH, TBC1D24 shRNA (h) Lentiviral Particles: sc-93059-V and TBC1D24 shRNA (m) Lentiviral Particles: sc-154103-V.

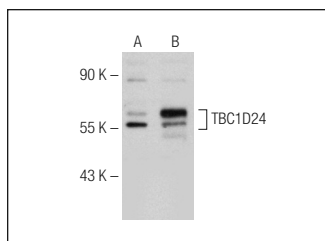
Molecular Weight of TBC1D24: 63 kDa.

Positive Controls: TBC1D24 (h): 293T Lysate: sc-111978.

## 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



TBC1D24 (P-14): sc-137821. Western blot analysis of TBC1D24 expression in non-transfected: sc-117752 (A) and human TBC1D24 transfected: sc-111978 (B) 293T whole cell lysates.

## RESEARCH USE

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

## PROTOCOLS

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



Try **TBC1D24 (G-6): sc-390237** or **TBC1D24 (D-5): sc-390377**, our highly recommended monoclonal alternatives to TBC1D24 (P-14).