

ACTL7B (K30): sc-100912

BACKGROUND

ACTL7B (Actin-like 7B) is a member of the ARP family of Actin-related proteins that contain an Actin fold and are involved in spindle orientation, nuclear migration and chromatin remodeling events. Localized to the cytoplasm and expressed in the testis and prostate, ACTL7B is 415 amino acids in length and is encoded by a gene that is oriented in a head-to-head formation with the familial dysautonomia (FD) candidate region on chromosome 9. Although located in a region associated with FD, ACTL7B is not involved in the pathogenesis of the genetic disease. ACTL7B shares high sequence similarity with ACTL7A (Actin-like 7A) and contains one conserved protein kinase C (PKC) site and one conserved cAMP/cGMP-dependent phosphorylation site. The human and mouse proteins share 88% sequence similarity.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ACTL7B (human) mapping to 9q31.3.

SOURCE

ACTL7B (K30) is a mouse monoclonal antibody raised against recombinant ACTL7B of human origin.

PRODUCT

Each vial contains 50 µg IgG_{2a} kappa light chain in 0.5 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

ACTL7B (K30) is recommended for detection of ACTL7B of 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for ACTL7B siRNA (h): sc-92677, ACTL7B shRNA Plasmid (h): sc-92677-SH and ACTL7B shRNA (h) Lentiviral Particles: sc-92677-V.

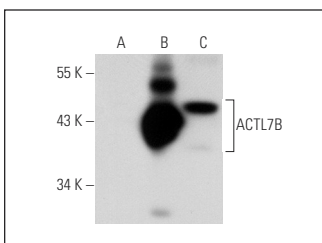
Molecular Weight of ACTL7B: 45 kDa.

Positive Controls: ACTL7B (h): 293T Lysate: sc-115085 or HeLa whole cell lysate: sc-2200.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), 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).

DATA



ACTL7B (K30): sc-100912. Western blot analysis of ACTL7B expression in non-transfected 293T: sc-117752 (A), human ACTL7B transfected 293T: sc-115085 (B) and HeLa (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.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.