

ACTR5 (N-14): sc-85262

BACKGROUND

ACTR5 (Actin-related protein 5), also known as ARP5 or INO80M, is a 607 amino acid protein that belongs to the Actin family. Functioning as a component of the INO80 chromatin remodeling complex, ACTR5 interacts with a variety of other Actin-related proteins and, via these interactions, is thought to be involved in transcriptional regulation events. The gene encoding ACTR5 maps to chromosome 20. Comprising approximately 2% of the human genome, chromosome 20 contains nearly 63 million bases that encode over 600 genes, some of which are associated with Creutzfeldt-Jakob disease, amyotrophic lateral sclerosis, spinal muscular atrophy, ring chromosome 20 epilepsy syndrome and Alagille syndrome.

REFERENCES

- Collins, S., et al. 2001. Gerstmann-Sträussler-Scheinker syndrome, fatal familial insomnia and kuru: a review of these less common human transmissible spongiform encephalopathies. *J. Clin. Neurosci.* 8: 387-397.
- Shen, X., et al. 2003. Involvement of Actin-related proteins in ATP-dependent chromatin remodeling. *Mol. Cell* 12: 147-155.

CHROMOSOMAL LOCATION

Genetic locus: ACTR5 (human) mapping to 20q11.23; Actr5 (mouse) mapping to 2 H1.

SOURCE

ACTR5 (N-14) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the N-terminus of ACTR5 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-85262 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ACTR5 (N-14) is recommended for detection of ACTR5 of mouse, rat 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).

Suitable for use as control antibody for ACTR5 siRNA (h): sc-72442, ACTR5 siRNA (m): sc-140847, ACTR5 shRNA Plasmid (h): sc-72442-SH, ACTR5 shRNA Plasmid (m): sc-140847-SH, ACTR5 shRNA (h) Lentiviral Particles: sc-72442-V and ACTR5 shRNA (m) Lentiviral Particles: sc-140847-V.

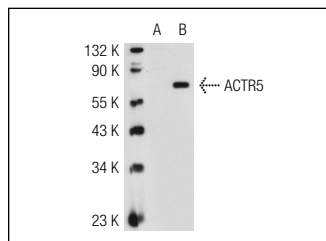
Molecular Weight of ACTR5: 68 kDa.

Positive Controls: ACTR5 (h): 293T Lysate: sc-114374 or Saos-2 cell lysate: sc-2235.

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



ACTR5 (N-14): sc-85262. Western blot analysis of ACTR5 expression in non-transfected: sc-117752 (A) and human ACTR5 transfected: sc-114374 (B) 293T 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 or our catalog for detailed protocols and support products.

MONOS
Satisfaction
Guaranteed

Try **ACTR5 (F-12): sc-376364** or **ACTR5 (D-10): sc-515343**, our highly recommended monoclonal alternatives to ACTR5 (N-14).