

Amphiphysin I (h): 293T Lysate: sc-114254

BACKGROUND

Amphiphysin is a brain-enriched protein that exhibits N-terminal lipid interaction and functions as a dimer. Amphiphysin contains a membrane bending BAR domain, a middle clathrin and adaptor binding domain, and a C-terminal SH3 domain. In the brain, Amphiphysin I and II form heterodimers that bind to the clathrin-associated GTPase, Dynamin, via their SH3 domains. This association is essential for synaptic vesicle recycling in neurons, as it precedes the binding of Dynamin to the clathrin-coated pits and the subsequent vesicle budding. In other tissues, Amphiphysin may play a key role in other membrane bending and curvature stabilization events. The mammalian amphiphysins, Amphiphysin I and Amphiphysin II, have similar overall structure. A ubiquitous splice form of Amphiphysin II that does not contain clathrin or adaptor interactions is highly expressed in muscle tissue and is involved in the formation and stabilization of the T-tubule network.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: AMPH (human) mapping to 7p14.1.

PRODUCT

Amphiphysin I (h): 293T Lysate represents a lysate of human Amphiphysin I transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

Amphiphysin I (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive Amphiphysin I antibodies. Recommended use: 10-20 µl per lane.

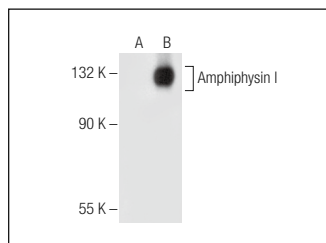
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

Amphiphysin I (A-7): sc-376435 is recommended as a positive control antibody for Western Blot analysis of enhanced human Amphiphysin I expression in Amphiphysin I transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

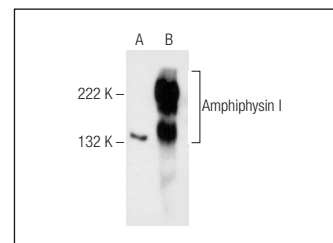
RECOMMENDED SUPPORT REAGENTS

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, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



Amphiphysin I (A-7): sc-376435. Western blot analysis of Amphiphysin I expression in non-transfected: sc-117752 (A) and human Amphiphysin I transfected: sc-114254 (B) 293T whole cell lysates.



Amphiphysin I (G-4): sc-376402. Western blot analysis of Amphiphysin I expression in non-transfected: sc-117752 (A) and human Amphiphysin I transfected: sc-114254 (B) 293T whole cell lysates.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. 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.