Dynamin II (h2): 293T Lysate: sc-116185



The Power to Question

BACKGROUND

Members of the Dynamin family, including Dynamin I and Dynamin II, are GTPase, microtubule-associated proteins which are involved in endocytosis, synaptic transmission and neurogenesis. Dynamin I is localized to the central nervous system, while Dynamin II exhibits ubiquitous distribution with highest expression found in testis. Both Dynamin proteins contain SH3 and prolinerich domains that mediate interactions between the Dynamins and effectors of their GTPase activity. The interactions with these effectors, which include microtubules, acidic phospholipids and SH3 domain-containing proteins, are required for rapid endocytosis. Dynamin I appears to be recruited to Clathrin coated pits by SH3 domain interaction with Amphiphysin, a protein highly expressed in brain.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: DNM2 (human) mapping to 9p23.

PRODUCT

Dynamin II (h2): 293T Lysate represents a lysate of human Dynamin II transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

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.

PROTOCOLS

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

APPLICATIONS

Dynamin II (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive Dynamin II antibodies. Recommended use: 10-20 μ l per lane

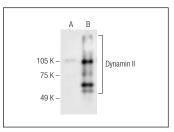
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

Dynamin I/II (E-4): sc-390160 is recommended as a positive control antibody for Western Blot analysis of enhanced human Dynamin II expression in Dynamin II 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-lgG κ BP-HRP: sc-516102 or m-lgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz MarkerTM Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



Dynamin I/II (E-4): sc-390160. Western blot analysis of Dynamin II expression in non-transfected: sc-117752 (**A**) and human Dynamin II transfected: sc-116185 (**B**) 293T whole cell because

RESEARCH USE

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