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matrin-3 (h2): 293T Lysate: sc-176323

BACKGROUND

Matrin-3 is a nuclear matrix protein containing one matrin-type zinc finger and two RRM (RNA recognition motif) domains. Matrin-3 plays a role in transcription and may interact with other nuclear matrix proteins to form the internal fibrogranular network. In association with the PSF-p54/NRB heteromer, Matrin-3 may play a role in the nuclear retention of defective RNAs. As the main substrate for PKA-mediated phosphorylation, Matrin-3 may serve as a rapid way of transferring information from synapses containing NMDA receptors to neuronal nuclei under physiological conditions. Also, the phosphorylation of Matrin-3 may contribute to neuronal death under pathological conditions. It is likely that Matrin-3 activity is regulated by calcium dependent interaction with CaM I and also by caspase induced cleavage.

REFERENCES

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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.

CHROMOSOMAL LOCATION

Genetic locus: MATR3 (human) mapping to 5q31.2.

RESEARCH USE

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

PRODUCT

matrin-3 (h2): 293T Lysate represents a lysate of human matrin-3 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

matrin-3 (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive matrin-3 antibodies. Recommended use: 10-20 µl per lane.

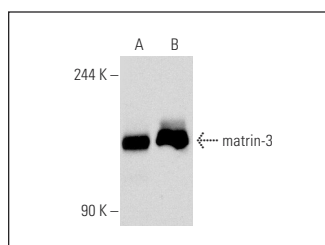
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

matrin-3 (2539C3a): sc-81318 is recommended as a positive control antibody for Western Blot analysis of enhanced human matrin-3 expression in matrin-3 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



matrin-3 (2539C3a): sc-81318. Western blot analysis of matrin-3 expression in non-transfected: sc-117752 (A) and human matrin-3 transfected: sc-176323 (B) 293T whole cell lysates.

PROTOCOLS

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