

Calpain 11 (h): 293T Lysate: sc-115046

BACKGROUND

Calpains are calcium-activated thiol proteases. They are heterodimers with one large subunit and one small subunit. The large subunit varies between family members and can be active without the small subunit. Calpains are involved in intracellular processing of proteins. Calpain 11 is a typical calpain with four domains but, in place of the typical domain IV is a similar calmodulin-like domain that associates but does not interact with the smaller regulatory subunit. Calpain 11 is found in the testis, localizing to the spermatozoa during the later stages of meiosis. It is expressed during spermatogenesis, which suggests that during meiosis and sperm functional processes, Calpain 11 may regulate calcium dependent signal transduction events.

REFERENCES

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8. Das, A., et al. 2006. Mechanism of apoptosis with the involvement of calpain and caspase cascades in human malignant neuroblastoma SH-SY5Y cells exposed to flavonoids. *Int. J. Cancer* 119: 2575-2585.
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CHROMOSOMAL LOCATION

Genetic locus: CAPN11 (human) mapping to 6p21.1.

PRODUCT

Calpain 11 (h): 293T Lysate represents a lysate of human Calpain 11 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.

APPLICATIONS

Calpain 11 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive Calpain 11 antibodies. Recommended use: 10-20 µl per lane.

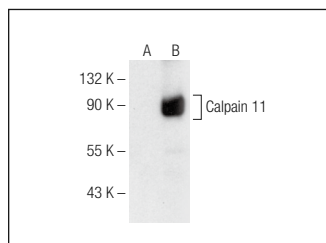
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

Calpain 11 (C-2): sc-376265 is recommended as a positive control antibody for Western Blot analysis of enhanced human Calpain 11 expression in Calpain 11 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



Calpain 11 (C-2): sc-376265. Western blot analysis of Calpain 11 expression in non-transfected: sc-117752 (A) and human Calpain 11 transfected: sc-115046 (B) 293T whole cell lysates.

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.