SZABO SCANDIC

Part of Europa Biosite

Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic

SANTA CRUZ BIOTECHNOLOGY, INC.

Calpain 15 (h2): 293T Lysate: sc-128223

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Calpains are calcium-activated thiol proteases involved in intracellular processing of proteins and signal transduction. The classic Calpains are heterodimers with one large subunit, one small subunit and five EF-hand-calcium binding structures. The large subunit varies between family members and can be active without the small subunit. Widely expressed, Calpain 15, which is also known as CAPN15 or SOLH (small optic lobes homolog), is a 1,086 amino acid protein found at highest levels in brain. As a member of the peptidase C2 family, Calpain 15 exists as two alternatively spliced isoforms containing a single calpain catalytic domain and five RanBP2-type zinc fingers. Calpain 15 is encoded by a gene located on human chromosome 16 and is thought to function as an RNA-binding protein and transcription factor and has also been suggested to play a role in protein-to-protein interactions during development of the visual system.

REFERENCES

1. Banfi, S., Borsani, G., Rossi, E., Bernard, L., Guffanti, A., Rubboli, F., Marchitiello, A., Giglio, S., Coluccia, E., Zollo, M., Zuffardi, O. and Ballabio, A. 1996. Identification and mapping of human cDNAs homologous to *Drosophila* mutant genes through EST database searching. Nat. Genet. 13: 167-174.
2. Kamei, M., Webb, G.C., Young, I.G. and Campbell, H.D. 1998. SOLH, a human homologue of the *Drosophila melanogaster* small optic lobes gene is a member of the calpain and zinc-finger gene families and maps to human chromosome 16p13.3 near CATM (cataract with microphthalmia). Genomics 51: 197-206.
3. Online Mendelian Inheritance in Man, OMIM™. 1998. Johns Hopkins University, Baltimore, MD. MIM Number: 603267. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/
4. Farkas, A., Tompa, P. and Friedrich, P. 2003. Revisiting ubiquity and tissue specificity of human calpains. Biol. Chem. 384: 945-949.
5. Czogalla, A. and Sikorski, A.F. 2005. Spectrin and calpain: a "target" and a "sniper" in the pathology of neuronal cells. Cell. Mol. Life Sci. 62: 1913-1924.
6. Croall, D.E. and Ersfeld, K. 2007. The calpains: modular designs and functional diversity. Genome Biol. 8: 218.
7. Evans, J.S. and Turner, M.D. 2007. Emerging functions of the calpain superfamily of cysteine proteases in neuroendocrine secretory pathways. J. Neurochem. 103: 849-859.

CHROMOSOMAL LOCATION

Genetic locus: SOLH (human) mapping to 16p13.3.

PRODUCT

Calpain 15 (h2): 293T Lysate represents a lysate of human Calpain 15 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

Calpain 15 (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive Calpain 15 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.

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.