



Calpain 10 (h): 293T Lysate: sc-174154

BACKGROUND

The CAPN10 (Calpain 10) gene encodes a ubiquitously expressed member of the Calpain-like cysteine protease family and shows association with type 2 diabetes research suggests that Calpain 10 plays a role in an innovative pathway involved in the pathophysiology of diabetes, where Calpain-10 represents the third example of a protease contributing to the advancement of diabetes, the others being prohormone convertase-1 and prohormone-processing carboxypeptidase E, both of which are associated with diabetes and obesity. The CAPN10 human cDNA encodes a 672 amino-acid protein that shares 81.7% identity with the mouse ortholog, and analysis of human cDNA clones displays an intricate pattern of alternative splicing. CAPN10, which presumably plays a role in the regulation of Insulin secretion, is thought to contain a signature of the effects of positive natural selection within its genetic sequence.

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: CAPN10 (human) mapping to 2q37.3.

PRODUCT

Calpain 10 (h): 293T Lysate represents a lysate of human Calpain 10 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

Calpain 10 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive Calpain 10 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.

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.