

erasin (m): 293T Lysate: sc-120085

BACKGROUND

Erasin, also known as UBXD2 (UBX domain containing protein 2) or UBXDC1, is an endoplasmic reticulum (ER) and nuclear envelope membrane protein. Expressed in a variety of tissues, such as brain, placenta, heart, liver, prostate, kidney, pancreas, lung and skeletal muscle, erasin contains one UBX domain and participates in the clearing of ERAD (endoplasmic reticulum-associated protein degradation) substrates. The UBX domain of erasin is responsible for mediating its direct interaction with VCP (valosin-containing protein), an AAA-ATPase molecular chaperone. In response to ER stress, erasin expression is induced. The knockdown of erasin expression leads to the inhibition of ERAD, suggesting an important function of erasin in the ERAD pathway. In addition, erasin may be involved in Alzheimer's disease, as it is known to accumulate in neurofibrillary degenerating neurons in patients with Alzheimer's disease.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Ubxn4 (mouse) mapping to 1 E4.

PRODUCT

erasin (m): 293T Lysate represents a lysate of mouse erasin 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

erasin (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive erasin 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.