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CapZ- β (m): 293T Lysate: sc-125095

BACKGROUND

CapZ- β (capping protein (Actin filament) muscle Z-line, β) gene encodes the β subunit of a barbed-end F-Actin capping protein complex. This protein complex regulates growth of the Actin filament by capping the barbed end of growing Actin filaments. F-Actin capping protein complex is a heterodimer consisting of α and β subunits that caps the barbed ends of Actin filaments and nucleates the polymerization of Actin monomers, yet does not sever Actin filaments. Capping protein binds to the barbed ends of Actin filaments and prevents the addition and loss of Actin monomers at the end.

REFERENCES

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3. Yamashita, A., Maeda, K. and Maéda, Y. 2003. Crystal structure of CapZ: structural basis for Actin filament barbed end capping. *EMBO J.* 22: 1529-1538.
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5. McGregor, E., Kempster, L., Wait, R., Gosling, M., Dunn, M.J. and Powell, J.T. 2004. F-Actin capping (CapZ) and other contractile saphenous vein smooth muscle proteins are altered by hemodynamic stress: a proteomic approach. *Mol. Cell. Proteomics* 3: 115-124.

CHROMOSOMAL LOCATION

Genetic locus: Capzb (mouse) mapping to 4 D3.

PRODUCT

CapZ- β (m): 293T Lysate represents a lysate of mouse CapZ- β transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

CapZ- β (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive CapZ- β antibodies. Recommended use: 10-20 μ l 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.