CaMKKβ (h2): 293T Lysate: sc-170459



The Power to Question

BACKGROUND

The Ca²⁺/calmodulin-dependent protein kinases (CaM kinases) are a structurally related subfamily of serine/threonine kinases that includes CaMKI, CaMKII and CaMKIV. CaMKI and CaMKIV are stimulated by Ca²⁺ and CaM, but phosphorylation by a CaMK is also required for full activation. CaMKK α and CaMKK β function to activate CaMKI through the specific phosphorylation of the regulatory threonine residue at position 177. CAMKK β is also capable of phosphorylating CaMKIV on threonine residue 200.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CAMKK2 (human) mapping to 12q24.31.

PRODUCT

CaMKK β (h2): 293T Lysate represents a lysate of human CaMKK β transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

STORAGE

Store at -20 $^{\circ}$ C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.

APPLICATIONS

CaMKK β (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive CaMKK β antibodies. Recommended use: 10-20 μ l per lane

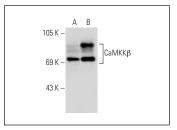
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

CaMKK β (ZZ9): sc-100364 is recommended as a positive control antibody for Western Blot analysis of enhanced human CaMKK β expression in CaMKK β 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-lgG κ BP-HRP: sc-516102 or m-lgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz MarkerTM Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



CaMKK β (ZZ9): sc-100364. Western blot analysis of CaMKK β expression in non-transfected: sc-117752 (A) and human CaMKK β transfected: sc-170459 (B) 293T whole cell lysates.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

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