

CALML3 (h): 293T Lysate: sc-113991

BACKGROUND

The level of intracellular calcium is tightly regulated in all eukaryotic cells. A modest increase in this level can result in a myriad of physiological responses, most of which are mediated by calmodulin (CaM), the universal calcium sensor. CaM directly modulates the activity of protein kinases and phosphatases, ion channels and nitric oxide synthetases. CaM is generally involved in such diverse processes as cell proliferation, endocytosis, cellular adhesion, protein turnover and smooth muscle contraction. CALML3 (calmodulin-like protein 3), also known as CLP, is a 149 amino acid protein that contains four EF-hand domains and shares functional similarity with CaM. Expressed in epidermal, mammary, prostate and cervical tissues, CALML3 is thought to play a role in calcium regulation and signaling events throughout and cell and may, in fact, compete with CaM by binding to different cellular substrates.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CALML3 (human) mapping to 10p15.1.

PRODUCT

CALML3 (h): 293T Lysate represents a lysate of human CALML3 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

CALML3 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive CALML3 antibodies. Recommended use: 10-20 µl per lane.

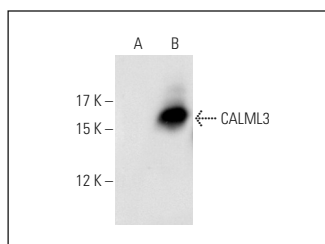
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

CaM (G-3): sc-137079 is recommended as a positive control antibody for Western Blot analysis of enhanced human CALML3 expression in CALML3 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-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



CaM (G-3): sc-137079. Western blot analysis of CALML3 expression in non-transfected: sc-117752 (A) and human CALML3 transfected: sc-113991 (B) 293T whole cell lysates.

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.