# EPLIN (h): 293 Lysate: sc-110636



The Power to Question

## **BACKGROUND**

Epithelial protein lost in neoplasm (EPLIN) is a cytoskeleton-associated protein characterized by the presence of a single centrally located lin-11, isl-1 and mec-3 (LIM) domain. It also contains at least two Actin-binding domains, in which the C-terminal domain binds more effectively than the N-terminal domain. By binding Actin monomers and filaments, EPLIN is involved in regulation of the Actin cytoskeleton by increasing the number and size of Actin stress fibers, delaying filament nucleation, reducing formation of branched filaments and bundling of Actin filaments. It also inhibits membrane ruffling and Actin filament depolymerization. EPLIN is strongly expressed in placenta, kidney, pancreas, prostate, ovary, spleen and heart, and to a lesser degree in lung, liver, brain, skeletal muscle, thymus, testis and intestine. It is expressed as two isoforms, EPLIN  $\alpha$  and EPLIN  $\beta$ . Downregulation of EPLIN  $\alpha$  expression may contribute to the motility of invasive tumor cells.

# **REFERENCES**

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## CHROMOSOMAL LOCATION

Genetic locus: LIMA1 (human) mapping to 12q13.12.

# **PRODUCT**

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

### **APPLICATIONS**

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

Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-transfected 293 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.

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