

Ep-CAM (h3): 293T Lysate: sc-113013

BACKGROUND

The epithelial cell adhesion molecule Ep-CAM, which is also designated tumor-associated calcium signal transducer 1 and MK-1, is a monomeric membrane glycoprotein that is expressed in most normal human epithelium and carcinomas. The human Ep-CAM gene encodes a 314 amino acid protein that is expressed as two forms, a major form and a minor form, which are reduced upon treatment with the amino-glycosylation inhibitor tunicamycin. Ep-CAM is overexpressed in a variety of carcinomas and is, therefore, a potential target for the visualization and therapy of human solid tumors. Ep-CAM contains an extracellular domain containing two epidermal growth factor-like repeats, followed by a cysteine poor region, which is necessary for the adhesion properties of the molecule.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TACSTD1 (human) mapping to 2p21.

PRODUCT

Ep-CAM (h3): 293T Lysate represents a lysate of human Ep-CAM transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

Ep-CAM (h3): 293T Lysate is suitable as a Western Blotting positive control for human reactive Ep-CAM 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.

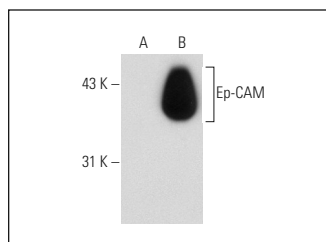
Ep-CAM (HEA125): sc-59906 is recommended as a positive control antibody for Western Blot analysis of enhanced human Ep-CAM expression in Ep-CAM transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

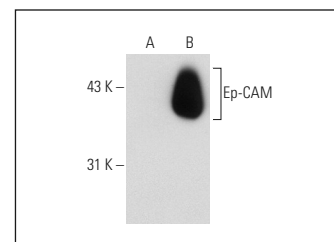
To ensure optimal results, the following support reagents are recommended:

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



Ep-CAM (HEA125): sc-59906. Western blot analysis of Ep-CAM expression in non-transfected: sc-117752 (A) and human Ep-CAM transfected: sc-113013 (B) 293T whole cell lysates.



Ep-CAM (B302): sc-59783. Western blot analysis of Ep-CAM expression in non-transfected: sc-117752 (A) and human Ep-CAM transfected: sc-113013 (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.