BACKGROUND
MCC (mutated in colorectal cancers), also known as MCC1, is a coiled-coil protein that localizes to the cytoplasm. It is involved in cell cycle regulation, negatively regulating cell cycle progression during the G1 to S transition via a role in the NFκB signaling pathway. More specifically, MCC interacts with the NFκB inhibitor, IκB-β, playing a role in its stabilization and thereby inhibiting the nuclear translocation and signaling of NFκB. This suggests that MCC may act as a tumor suppressor. MCC is a phosphorylated protein and the state of phosphorylation changes in relation to the cell cycle. This implies that its function may be regulated by phosphorylation. MCC is highly phosphorylated during the transition from G1 to S phase and weakly phosphorylated in G2/G1. The overexpression of MCC results in a decreased number of cells entering S phase.

REFERENCES

CHROMOSOMAL LOCATION
Genetic locus: MCC (human) mapping to 5q22.2; Mcc (mouse) mapping to 18 B3.

SOURCE
MCC (1) is a mouse monoclonal antibody raised against amino acids 5-146 of MCC of human origin.

PRODUCT
Each vial contains 50 µg IgG1 in 500 µl PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE
Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS
MCC (1) is recommended for detection of MCC of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500); not recommended for immunoprecipitation.

Suitable for use as control antibody for MCC siRNA (h): sc-106908, MCC siRNA (m): sc-149317, MCC shRNA Plasmid (h): sc-106908-SH, MCC shRNA Plasmid (m): sc-149317-SH, MCC shRNA (h) Lentiviral Particles: sc-106908-V and MCC shRNA (m) Lentiviral Particles: sc-149317-V.

Molecular Weight of MCC phosphoprotein: 100 kDa.

Positive Controls: MCC (h3): 293T Lysate: sc-177522, NIH/3T3 whole cell lysate: sc-2210 or HCT 116 whole cell lysate: sc-364175.

DATA

SELECT PRODUCT CITATIONS

RESEARCH USE
For research use only, not for use in diagnostic procedures. Not for resale.

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