**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 NFkB signaling pathway. More specifically, MCC interacts with the NFkB inhibitor, IKB, playing a role in its stabilization and thereby inhibiting the nuclear translocation and signaling of NFkB. 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 G0/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 (A-9) is a mouse monoclonal antibody raised against amino acids 661-945 mapping within an internal region of MCC of human origin.

**PRODUCT**

Each vial contains 200 µg IgG kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**

MCC (A-9) is recommended for detection of MCC isoforms 1 and 2 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation (1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

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.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgG, m-IgG, BP-HRP: sc-516102 or m-IgG, BP-HRP (Cruz Marker); sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2035, 0.5 ml agarose/2.0 ml. 3) Immunofluorescence: use m-IgG, BP-FITC: sc-516140 or m-IgG, BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

**DATA**

MCC (A-9): sc-398216. Western blot analysis of MCC expression in non-transfected 293T: sc-177522 (A), human MCC transfected 293T: sc-117752 (B) and HCT-116 (C) whole cell lysates and human liver tissue extract (D).

MCC (A-9): sc-398216. Western blot analysis of MCC expression in NIH/3T3 (A) and L6 (B) whole cell lysates and rat brain tissue extract (C).

**STORAGE**

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

**RESEARCH USE**

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

**PROTOCOLS**

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