RECK (G-4): sc-373929

**BACKGROUND**

RECK (reversion-inducing-cysteine-rich protein with Kazal motifs) is a membrane anchored glycoprotein that binds to and inhibits the proteolytic activity of matrix metalloproteinase-9 (MMP-9). The enzymatic activity of MMP-9 facilitates tumor invasion by proteolytically digesting the extracellular matrix, thereby enabling tumor growth, expansion and metastasis. RECK inhibits the secretion and activation of MMP-9 into the extracellular matrix, which results in the inhibition of tumor growth. RECK contains multiple EGF-like repeats and serine-protease inhibitor-like domains. The expression of RECK is suppressed in several tumors and oncogenically transformed cells, suggesting that the loss of RECK activity correlates with transformed phenotypes. Transcriptional activation of RECK is potentially negatively regulated by the Sp1 family of transcription factors, as it contains two Sp1 binding motifs in the promoter region, and in cells transformed with the Ras oncogene, the Sp1 promoter region is essential for repressing RECK gene expression.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: RECK (human) mapping to 9p13.3; Reck (mouse) mapping to 4 B1.

**SOURCE**

RECK (G-4) is a mouse monoclonal antibody raised against amino acids 644-943 mapping near the C-terminus of RECK of human origin.

**PRODUCT**

Each vial contains 200 µg IgG₂κ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

RECK (G-4) is recommended for reactivity in Western Blotting (starting dilution 1:100, dilution range 1:1000-1:10000), 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 a primary antibody for detection of RECK in Western Blotting (using sc-373929, RECK polyclonal rabbit antibody), ELISA (using sc-39718, RECK ELISA kit), FACS (using sc-70171, RECK PE-conjugated antibody), and Immunoprecipitation (using sc-39719, RECK shRNA Plasmid).

Molecular Weight of RECK: 110 kDa.

Positive Controls: WI-38 whole cell lysate: sc-364260 or PC-12 cell lysate: sc-2250.

**DATA**

RECK (G-4): sc-373929. Western blot analysis of RECK expression in WI-38 whole cell lysate.

**SELECT PRODUCT CITATIONS**


**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 web site at www.scbt.com for detailed protocols and support products.