**BACKGROUND**

RCAS1/EBAG9 (receptor-binding cancer antigen expressed on SiSo cells/estrogen receptor-binding fragment-associated gene 9) is an estrogen-transcribed protein. Soluble and membranous RCAS1 proteins may play a role in the immune escape of tumor cells by promoting T lymphocyte inhibition of growth and apoptosis. RCAS1 is expressed in a wide variety of cancers, including uterine, ovarian, and lung cancer cells, and acts as a ligand for a putative receptor present on peripheral lymphocytes. RCAS1 is highly expressed not only in cancer cells but also in non-tumor bile duct cells subject to immune attack. RCAS1 inhibits the in vitro growth of receptor-expressing cells and induces apoptosis, contributing to the ability of tumor cells to evade host immune surveillance. High expression of RCAS1 significantly correlates with tumor progression and with poor outcome for many cancer patients. The human RCAS1/EBAG9 gene maps to human chromosome 8q23.2.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: EBAG9 (human) mapping to 8q23.2; Ebag9 (mouse) mapping to 15 B3.2.

**SOURCE**

RCAS1 (D-9) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 124-159 within an internal region of RCAS1 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG2a kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-398052 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

**STORAGE**

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

**APPLICATIONS**

RCAS1 (D-9) is recommended for detection of RCAS1 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 RCAS1 siRNA (h): sc-37493, RCAS1 siRNA (m): sc-37494, RCAS1 shRNA Plasmid (m): sc-37493-SH, RCAS1 shRNA Plasmid (m): sc-37494-SH, Lentiviral Particles: sc-37493-V and RCAS1 shRNA (m) Lentiviral Particles: sc-37494-V.

Molecular Weight of RCAS1: 32 kDa.

Positive Controls: RCAS1 (h): 293 Lysate; sc-112757, HeLa whole cell lysate; sc-2200 or A-431 whole cell lysate; sc-2201.

**RECOMMENDED SUPPORT REAGENTS**

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

**DATA**

**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.