# BRMS1 (H-40): sc-134741



The Power to Question

#### **BACKGROUND**

Breast cancer metastasis-suppressor 1 (BRMS1) is 246 amino acid protein that acts as a mediator of metastasis suppression in several types of cancer including ovarian, lung, bladder and murine mammary. BRMS1 mRNA is expressed in various tissues, including ovary, prostate, testis and colon, but the protein is primarily detected in term placenta. BRMS1 suppresses metastasis without inhibiting tumorigenicity by modifying several metastasis-associated phenotypes. BRMS1 may participate in transcriptional regulation by binding to the mSin3/histone deacetylase complex. The expression of BRMS1 in certain cells increases connexin Cx43 expression and reduces connexin Cx32 expression. This produces a gap junction that increases intercellular communication, similar to those found in normal breast tissue. BRMS1 is stabilized by HSP 90 and may inhibit NFκB activity.

# **REFERENCES**

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# CHROMOSOMAL LOCATION

Genetic locus: BRMS1 (human) mapping to 11q13.2; Brms1 (mouse) mapping to 19 A.

## **SOURCE**

BRMS1 (H-40) is a rabbit polyclonal antibody raised against amino acids 171-210 mapping near the C-terminus of BRMS1 of human origin.

## **RESEARCH USE**

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

#### **PRODUCT**

Each vial contains 200  $\mu g$  IgG in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

## **APPLICATIONS**

BRMS1 (H-40) is recommended for detection of BRMS1 (breast cancer metastasis-suppressor 1) of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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).

BRMS1 (H-40) is also recommended for detection of BRMS1 (breast cancer metastasis-suppressor 1) in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for BRMS1 siRNA (h): sc-60290, BRMS1 siRNA (m): sc-60291, BRMS1 shRNA Plasmid (h): sc-60290-SH, BRMS1 shRNA Plasmid (m): sc-60291-SH, BRMS1 shRNA (h) Lentiviral Particles: sc-60290-V and BRMS1 shRNA (m) Lentiviral Particles: sc-60291-V.

Molecular Weight of BRMS1: 28 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200 or human liver extract: sc-363766.

## **RECOMMENDED SECONDARY REAGENTS**

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), 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-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## **STORAGE**

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

# **PROTOCOLS**

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



Try **BRMS1 (4H7): sc-101219**, our highly recommended monoclonal alternative to BRMS1 (H-40).