SANTA CRUZ BIOTECHNOLOGY, INC.

REM2 (P-17): sc-160722

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

REM2 (RAS (RAD and GEM)-like GTP binding 2) is a 340 amino acid cell membrane protein that functions as a GTPase and belongs to the RGK family as well as the small GTPase superfamily. A suppressor of the p53 pathway, REM2 also mediates the fibroblastic growth factor 2 (FGF-2) signaling pathway and is involved in maintaining the proliferation of human embryonic stem cells. Expressed in kidney and brain, REM2 is encoded by a gene that maps to human chromosome 14q11.2. Chromosome 14 encodes the presinilin 1 (PSEN1) gene, which is one of the three key genes associated with the development of Alzheimer's disease (AD). The SERPINA1 gene is also located on chromosome 14 and, when defective, leads to the genetic disorder α1-antitrypsin deficiency, which is characterized by severe lung complications and liver dysfunction.

CHROMOSOMAL LOCATION

Genetic locus: REM2 (human) mapping to 14q11.2; Rem2 (mouse) mapping to 14 C3.

SOURCE

REM2 (P-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of REM2 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-160722 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

REM2 (P-17) is recommended for detection of REM2 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); non cross-reactive with REM.

REM2 (P-17) is also recommended for detection of REM2 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for REM2 siRNA (h): sc-92154, REM2 siRNA (m): sc-152799, REM2 shRNA Plasmid (h): sc-92154-SH, REM2 shRNA Plasmid (m): sc-152799-SH, REM2 shRNA (h) Lentiviral Particles: sc-92154-V and REM2 shRNA (m) Lentiviral Particles: sc-152799-V.

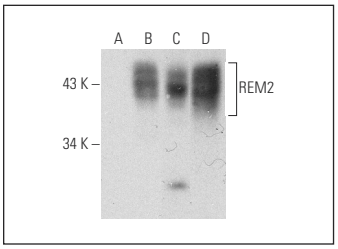
Molecular Weight of REM2: 37 kDa.

Positive Controls: mouse brain extract: sc-2253, REM2 (m): 293T Lysate: sc-123060 or mouse pituitary gland extract: sc-364246.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



REM2 (P-17): sc-160722. Western blot analysis of REM2 expression in non-transfected 293T: sc-117752 (**A**) and mouse REM2 transfected 293T: sc-123060 (**B**) whole cell lysates and mouse brain (**C**) and mouse pituitary gland (**D**) tissue extracts.

RESEARCH USE

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

PROTOCOLS

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