SANTA CRUZ BIOTECHNOLOGY, INC.

Prokineticin-2 (H-51): sc-67176

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The Power to Question

BACKGROUND

Prokineticin-2 (PK2) is a cysteine-rich secreted protein that is expressed in the suprachiasmatic nucleus (SCN) with receptors located in the critical autonomic control centers of the brain. It has a depolarizing effect on neurons expressing the receptor. PK2 is predominantly controlled by the endogenous circadian clock, but light also plays a modulatory role. PK2 functions as a critical SCN output molecule responsible for circadian locomotor rhythms. PK2 expression is high during the day and is also responsive to nocturnal light pulses. PK2 also functions as a chemoattractant for subventricular zone-derived neuronal progenitors.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PROK2 (human) mapping to 3p13; Prok2 (mouse) mapping to 6 D3.

SOURCE

Prokineticin-2 (H-51) is a rabbit polyclonal antibody raised against amino acids 35-85 mapping within an internal region of Prokineticin-2 of human origin.

STORAGE

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

PRODUCT

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

APPLICATIONS

Prokineticin-2 (H-51) is recommended for detection of Prokineticin-2 isoforms 1 and 2 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), immunohistochemistry (including paraffin-embedded sections) (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 Prokineticin-2 siRNA (h): sc-61409, Prokineticin-2 siRNA (m): sc-61410, Prokineticin-2 shRNA Plasmid (h): sc-61409-SH, Prokineticin-2 shRNA Plasmid (m): sc-61410-SH, Prokineticin-2 shRNA (h) Lentiviral Particles: sc-61409-V and Prokineticin-2 shRNA (m) Lentiviral Particles: sc-61410-V.

Molecular Weight of Prokineticin-2: 9 kDa.

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. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

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.