Calcipressin-2/3 (H-213): sc-98746

**BACKGROUND**

Calcineurin is a Ca^{2+} dependent protein phosphatase that is involved in several neuronal functions. Proteins belonging to the RCAN (regulator of calcineurin) family modulate the activity of Calcineurin through a valine-rich region within their carboxyl tail. RCANs compete with NFATs (nuclear factor of activated T-cells) for binding to the same docking site in calcineurin, which results in either inhibition or activation of calcineurin activity. Calcipressin-2, also known as RCAN2 and DSCR11 (Down syndrome candidate region 1-like 1) is a 197 amino acid protein that is highly expressed in both the cytoplasm and nucleus of neurons and is the only RCAN family member that is found in gial cells. Calcipressin-3, also known as RCAN3 and DSCR112 (Down syndrome candidate region 1-like protein 2), is a 241 amino acid protein that potentially is involved in central nervous system development. Calcipressin-3 interacts with cardiac troponin I, suggesting that it may play a role in cardiac contraction events.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: RCAN2 (human) mapping to 6p21.1, RCAN3 (human) mapping to 1p36.11; Rcan2 (mouse) mapping to 17 B3, Rcan3 (mouse) mapping to 4 D3.

**SOURCE**

Calcipressin-2/3 (H-213) is a rabbit polyclonal antibody raised against amino acids 30-241 mapping at the C-terminus of Calcipressin-3 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.

**STORAGE**

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

**APPLICATIONS**

Calcipressin-2/3 (H-213) is recommended for detection of Calcipressin-2 and Calcipressin-3 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).

**RECOMMENDED SECONDARY REAGENTS**

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2035 (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.

**DATA**


**RESEARCH USE**

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

**MONOS Satisfaction Guaranteed**

Try Calcipressin-2/3 (B-9): sc-374454 or Calcipressin-2/3 (F-7): sc-374453, our highly recommended monoclonal alternatives to Calcipressin-2/3 (H-213).