CGRP-RCP (D-1): sc-393347

BACKGROUND
Calcitonin is a 32-amino acid hormone that preserves skeletal integrity by inhibiting osteoclast formation and bone resorption. The secretion of calcitonin from the thyroid is regulated in part by estrogen, which increases calcitonin mRNA levels. The calcitonin gene undergoes alternative splicing, resulting in the production of several related products. One such product is calcitonin gene-related peptide (CGRP), which is expressed in neuronal cells. CGRP immunoreactive neurons innervate the uterus. Specifically, CGRP inhibits osteoclast formation and bone resorption. The secretion of calcitonin 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).

APPLICATIONS
CGRP-RCP (D-1) is recommended for detection of CGRP-RCP 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).

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

DATA

CHROMOSOMAL LOCATION
Genetic locus: CRCP (human) mapping to 7q11.21; Crcp (mouse) mapping to 5 G1.3.

SOURCE
CGRP-RCP (D-1) is a mouse monoclonal antibody raised against amino acids 1-148 representing full length CGRP-RCP of human origin.

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

CGRP-RCP (D-1) is available conjugated to agarose (sc-393347 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-393347 HRP), 200 µg/ml, for WB, IHC(PE) and ELISA; to either phycoerythrin (sc-393347 PE), fluorescein (sc-393347 FITC), Alexa Fluor® 488 (sc-393347 AF488), Alexa Fluor® 546 (sc-393347 AF546), Alexa Fluor® 594 (sc-393347 AF594) or Alexa Fluor® 647 (sc-393347 AF647), 200 µg/ml, for WB (RGB), IF, IHC(PE) and FCM; and to either Alexa Fluor® 680 (sc-393347 AF680) or Alexa Fluor® 790 (sc-393347 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

REFERENCES

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

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

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