**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 spontaneous and evoked contractions in the uterus and fallopian tubes. The CGRP-receptor complement protein (CGRP-RCP) is an accessory protein that is expressed in CGRP responsive tissues. CGRP-RCP is associated with the acrosome, thereby playing a role in reproduction. Specifically, CGRP-RCP couples the CGRP receptor to downstream effectors.

**REFERENCES**


**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 IgG1 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(P) 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(P) 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.

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**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).


Molecular Weight of CGRP-RCP: 19 kDa.


**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgG κ BP-FITC: sc-516140 or m-IgG κ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

**DATA**

CGRP-RCP (D-1): sc-393347. Western blot analysis of CGRP-RCP expression in NTERA-2 cl.D1 (A) and Hs 181 Tes (B) whole cell lysates and rat epididymis (C), mouse epididymis (D) and human testis (E) tissue extracts.

CGRP-RCP (D-1): sc-393347. Immunofluorescence staining of methanol-fixed HeLa cells showing nuclear localization.

**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.