SANTA CRUZ BIOTECHNOLOGY, INC.

mPRγ (H-70): sc-292399

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

The steroid progesterone induces the resumption of maturation in oocytes via a nongenomic pathway through binding to a novel, membrane progestin receptor (mPR). This pathway inhibits adenylyl cyclase and reduces intracellular cAMP, and also activates mitogen-activated protein kinase to effect signal transduction pathways. Five distinct groups, designated α, β, γ, δ and ε, comprise this gene family, and while all contain 7 transmembrane domains, they show distinct distributions in reproductive, neural, kidney and intestinal tissues, respectively. These characteristics separate them from nuclear progestin receptors, and instead imply similarity to G-protein coupled receptors.

REFERENCES

1. Sheng, Y., et al. 2001. Regulation of *Xenopus* oocyte meiosis arrest by G protein βγ subunits. Curr. Biol. 11: 405-416.
2. Curran-Rauhut, M.A., et al. 2002. The distribution of progestin receptor mRNA in rat brainstem. Brain Res. Gene Expr. Patterns 1: 151-157.

CHROMOSOMAL LOCATION

Genetic locus: PAQR5 (human) mapping to 15q23; Paqr5 (mouse) mapping to 9 B.

SOURCE

mPRγ (H-70) is a rabbit polyclonal antibody raised against amino acids 261-330 mapping at the C-terminus of mPRγ 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. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-292399 X, 200 µg/0.1 ml.

APPLICATIONS

mPRγ (H-70) is recommended for detection of mPRγ 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).

mPRγ (H-70) is also recommended for detection of mPRγ in additional species, including equine, bovine, porcine and canine.

Suitable for use as control antibody for mPRγ siRNA (h): sc-106235, mPRγ siRNA (m): sc-155918, mPRγ shRNA Plasmid (h): sc-106235-SH, mPRγ shRNA Plasmid (m): sc-155918-SH, mPRγ shRNA (h) Lentiviral Particles: sc-106235-V and mPRγ shRNA (m) Lentiviral Particles: sc-155918-V.

mPRγ (H-70) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

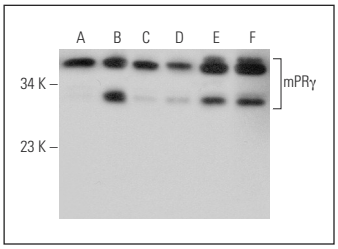
Molecular Weight of mPRγ: 38 kDa.

Positive Controls: HEK293 whole cell lysate: sc-45136, HUV-EC-C whole cell lysate: sc-364180 or Jurkat whole cell lysate: sc-2204.

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.

DATA



mPRγ (H-70): sc-292399. Western blot analysis of mPRγ expression in Jurkat (**A**), HeLa (**B**), SW480 (**C**), PC-12 (**D**), HUV-EC-C (**E**) and HEK293 (**F**) whole cell lysates.

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.

PROTOCOLS

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