

# PDRG (C-16): sc-85813

## BACKGROUND

PDRG (p53 and DNA damage regulated), also known as PDRG1 or C20orf126, is a 133 amino acid protein that localizes to the cytoplasm and belongs to the prefoldin subunit  $\beta$  family. Expressed predominately in normal testicular tissue, PDRG is functionally induced by ultraviolet light and is thought to play a role in chaperone-mediated protein folding, possibly playing a role in cellular degradation. The gene encoding PDRG maps to human chromosome 20, which houses over 600 genes some of which are associated with Creutzfeldt-Jakob disease, amyotrophic lateral sclerosis, spinal muscular atrophy, ring chromosome 20 epilepsy syndrome and Alagille syndrome. Additionally, chromosome 20 contains a region with numerous genes which are thought important for seminal production and may be potential targets for male contraception.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: PDRG1 (human) mapping to 20q11.21; PdrG1 (mouse) mapping to 2 H1.

## SOURCE

PDRG (C-16) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of PDRG of human origin.

## RESEARCH USE

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

## PRODUCT

Each vial contains 100  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-85813 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

PDRG (C-16) is recommended for detection of PDRG of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

PDRG (C-16) is also recommended for detection of PDRG in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for PDRG siRNA (h): sc-76099, PDRG siRNA (m): sc-152142, PDRG shRNA Plasmid (h): sc-76099-SH, PDRG shRNA Plasmid (m): sc-152142-SH, PDRG shRNA (h) Lentiviral Particles: sc-76099-V and PDRG shRNA (m) Lentiviral Particles: sc-152142-V.

Molecular Weight of PDRG: 15 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) 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.

## STORAGE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.