SANTA CRUZ BIOTECHNOLOGY, INC.

PCGF3 (D-22): sc-133892

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The Power to Question

BACKGROUND

Polycomb group (PcG) proteins form multiprotein complexes that regulate expression patterns of developmental and cell proliferation genes. Several members of the PcG contain ring finger domains and are identified as a subclass of RING finger proteins. The RING-type zinc finger motif is present in a number of viral and eukaryotic proteins and is made of a conserved cysteine-rich domain that is able to bind two zinc atoms. Proteins that contain the RING-type zinc finger conserved domain are generally involved in the ubiquitination pathway of protein degradation. PCGF3 (polycomb group ring finger 3), also known as RNF3, DONG1 or RNF3A, is a 242 amino acid transcriptional regulator that is encoded by a gene located on human chromosome 4, which encodes nearly 6% of the human genome and has the largest gene deserts (regions of the genome with no protein encoding genes) of all of the human chromosomes. PCGF3 exists as two isoforms produced by alternative splicing events.

REFERENCES

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3. Joazeiro, C.A. and Weissman, A.M. 2000. RING finger proteins: mediators of ubiquitin ligase activity. Cell 102: 549-552.
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CHROMOSOMAL LOCATION

Genetic locus: PCGF3 (human) mapping to 4p16.3.

SOURCE

PCGF3 (D-22) is an affinity purified rabbit polyclonal antibody raised against synthetic PCGF3 peptide of human origin.

PRODUCT

Each vial contains 50 µg IgG in 500 µl PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

APPLICATIONS

PCGF3 (D-22) is recommended for detection of PCGF3 of 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for PCGF3 siRNA (h): sc-89157, PCGF3 shRNA Plasmid (h): sc-89157-SH and PCGF3 shRNA (h) Lentiviral Particles: sc-89157-V.

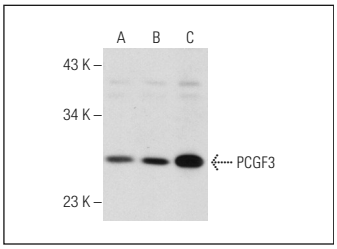
Molecular Weight of PCGF3: 28 kDa.

Positive Controls: PCGF3 (h): 293T Lysate: sc-114793, HL-60 whole cell lysate: sc-2209 or Jurkat whole cell lysate: sc-2204.

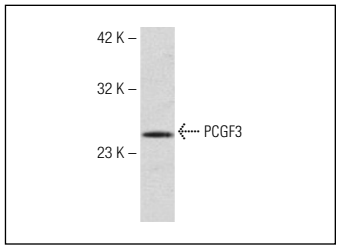
RECOMMENDED SECONDARY REAGENTS

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).

DATA



PCGF3 (D-22): sc-133892. Western blot analysis of PCGF3 expression in non-transfected 293T: sc-117752 (**A**), human PCGF3 transfected 293T: sc-114793 (**B**) and HL-60 (**C**) whole cell lysates.



PCGF3 (D-22): sc-133892. Western blot analysis of PCGF3 expression in Jurkat whole cell lysate.

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.