

# PCIA1 (N-15): sc-241595

## BACKGROUND

PCIA1 (placenta cross-immune reaction antigen 1), also known as DDA1 (DET1 and DDB1 associated 1), is a 102 amino acid protein that belongs to the DDA1 family. PCIA1 may be involved in ubiquitination and subsequent proteasomal degradation of target proteins. PCIA1 is a component of the DDD-E2 complexes which may provide a platform for interaction with CUL4A and WD repeat proteins. In addition to the PCIA1 protein, the DDD core complex contains DET1, DDA1 and DDB1. The DDD core complex recruits a specific UBE2E enzyme, such as UBE2E1, UBE2E2 or UBE2E3, to form specific DDD-E2 complexes. The PCIA1 gene is conserved in canine, bovine, mouse, rat, chicken, zebrafish and mosquito, and maps to human chromosome 19p13.11. Consisting of around 63 million bases with over 1,400 genes, chromosome 19 makes up over 2% of human genomic DNA. It is the genetic home for a number of immunoglobulin superfamily members including the killer cell and leukocyte Ig-like receptors, a number of ICAMs, the CEACAM and PSG family, and Fc $\alpha$  receptors.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: DDA1 (human) mapping to 19p13.11; Dda1 (mouse) mapping to 8 B3.3.

## SOURCE

PCIA1 (N-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of PCIA1 of human origin.

## RESEARCH USE

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

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-241595 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

PCIA1 (N-15) is recommended for detection of Dda1 of mouse and rat origin and PCIA1 of 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).

PCIA1 (N-15) is also recommended for detection of PCIA1 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for PCIA1 siRNA (h): sc-97705, Dda1 siRNA (m): sc-142912, PCIA1 shRNA Plasmid (h): sc-97705-SH, Dda1 shRNA Plasmid (m): sc-142912-SH, PCIA1 shRNA (h) Lentiviral Particles: sc-97705-V and Dda1 shRNA (m) Lentiviral Particles: sc-142912-V.

Molecular Weight of PCIA1: 12 kDa.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (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.