SANTA CRUZ BIOTECHNOLOGY, INC.

PJA2 (N-17): sc-243803

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The Power to Question

BACKGROUND

PJA2 (praja ring finger 2), also known as E3 ubiquitin-protein ligase praja-2, RNF131 (RING finger protein 131) or Neurodap1, is a 708 amino acid protein that contains one ring-type zinc finger and exists as 2 alternatively spliced isoforms. Significantly conserved in chimpanzee, canine, bovine, mouse, rat, chicken and zebrafish, PJA2 shares 52% identity with PJA1, which is involved in protein ubiquitination in brain and may play a role in X-linked mental retardation. Encoded by a gene that maps to human chromosome 5q21.3, PJA2 localizes to both endoplasmic reticulum and Golgi apparatus membranes. Participating in E2-dependent, E3 ubiquitin-protein ligase activity, PJA2 binds to a variety of E2s and interacts with ubiquitin-conjugating enzymes, such as UBE2D2, *in vitro*.

CHROMOSOMAL LOCATION

Genetic locus: PJA2 (human) mapping to 5q21.3; Pja2 (mouse) mapping to 17 E1.1.

SOURCE

PJA2 (N-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of PJA2 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.

Blocking peptide available for competition studies, sc-243803 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

PJA2 (N-17) is recommended for detection of PJA2 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); non cross-reactive with PJA1.

PJA2 (N-17) is also recommended for detection of PJA2 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for PJA2 siRNA (h): sc-91836, PJA2 siRNA (m): sc-152284, PJA2 shRNA Plasmid (h): sc-91836-SH, PJA2 shRNA Plasmid (m): sc-152284-SH, PJA2 shRNA (h) Lentiviral Particles: sc-91836-V and PJA2 shRNA (m) Lentiviral Particles: sc-152284-V.

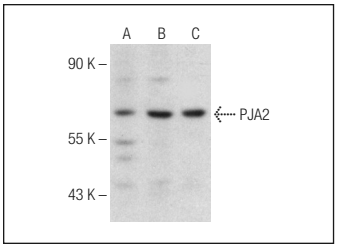
Molecular Weight of PJA2 isoforms: 78/76 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, IMR-32 cell lysate: sc-2409 or mouse brain extract: sc-2253.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



PJA2 (N-17): sc-243803. Western blot analysis of PJA2 expression in Jurkat (**A**) and IMR-32 (**B**) whole cell lysates and mouse brain tissue extract (**C**).

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.

MONOS Satisfaction Guaranteed

Try **PJA2 (H-4): sc-390137** or **PJA2 (A-4): sc-390165**, our highly recommended monoclonal alternatives to PJA2 (N-17).