

ANP32D (L-12): sc-167090

BACKGROUND

ANP32D (acidic (leucine-rich) nuclear phosphoprotein 32 family, member D), also known as PP32R2 (phosphoprotein 32-related protein 2) or tumorigenic protein pp32r2, is a 131 amino acid protein that contains 3 leucine-rich repeats and belongs to the ANP32 family. ANP32D shares 89.3% amino acid sequence identity with ANP32A, a tumor suppressor that inhibits a variety of cancers, such as prostate and breast cancers. Although similar to ANP32A, ANP32D is tumorigenic and is preferentially expressed in prostatic cancer. Conversely, it is uncertain that ANP32D is neurally expressed. Intronless, ANP32D may be a pseudogene that is expressed in pathological situations and may also modulate the oncogenic potential of human prostate cancer. ANP32D is encoded by a gene that maps to human chromosome 12q13.11.

REFERENCES

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4. Huyton, T. et al. 2007. The crystal structure of the tumor suppressor protein pp32 (Anp32a): structural insights into Anp32 family of proteins. *Protein Sci.* 16: 1308-1315.
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7. Kular, R.K., et al. 2010. Cpd-1 null mice display a subtle neurological phenotype. *PLoS ONE* 5: e12649.
8. Ng, A.C., et al. 2010. Human leucine-rich repeat proteins: a genome-wide bioinformatic categorization and functional analysis in innate immunity. *Proc. Natl. Acad. Sci. USA* 108 Suppl. 1:4631-4638.

CHROMOSOMAL LOCATION

Genetic locus: ANP32D (human) mapping to 12q13.11.

SOURCE

ANP32D (L-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ANP32D 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-167090 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ANP32D (L-12) is recommended for detection of ANP32D 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).

Suitable for use as control antibody for ANP32D siRNA (h): sc-95986, ANP32D shRNA Plasmid (h): sc-95986-SH and ANP32D shRNA (h) Lentiviral Particles: sc-95986-V.

Molecular Weight of ANP32D: 15 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.

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.