SANTA CRUZ BIOTECHNOLOGY, INC.

PIK3IP1 (N-18): sc-86785

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

PIK3IP1 (phosphoinositide-3-kinase interacting protein 1), also known as HGFL, is a 263 amino acid single-pass type I membrane protein that contains one kringle domain. Expressed as three alternatively spliced isoforms, PIK3IP1 functions as a negative regulator of PI 3-kinase and is involved in the suppression of PI 3-kinase-associated hepatocellular carcinoma. The gene encoding PIK3IP1 maps to human chromosome 22q12.2, which houses over 500 genes and is the second smallest human chromosome. Mutations in several of the genes that map to chromosome 22 are involved in the development of Phelan-McDermid syndrome, neurofibromatosis type 2, autism and schizophrenia. Additionally, translocations between chromosomes 9 and 22 may lead to the formation of the Philadelphia chromosome and the subsequent production of the novel fusion protein Bcr-Abl, a potent cell proliferation activator found in several types of leukemias.

REFERENCES

1. Gilbert, F. 1998. Disease genes and chromosomes: disease maps of the human genome. Chromosome 22. Genet. Test. 2: 89-97.
2. Schwab, S.G. and Wildenauer, D.B. 1999. Chromosome 22 workshop report. Am. J. Med. Genet. 88: 276-278.
3. Tsilchorozidou, T., Menko, F.H., Lalloo, F., Kidd, A., De Silva, R., Thomas, H., Smith, P., Malcolmson, A., Dore, J., Madan, K., Brown, A., Yovos, J.G., Tsaligopoulos, M., Vogiatzis, N., Baser, M.E., Wallace, A.J. and Evans, D.G. 2004. Constitutional rearrangements of chromosome 22 as a cause of neurofibromatosis 2. J. Med. Genet. 41: 529-534.
4. Arinami, T. 2006. Analyses of the associations between the genes of 22q11 deletion syndrome and schizophrenia. J. Hum. Genet. 51: 1037-1045.

CHROMOSOMAL LOCATION

Genetic locus: PIK3IP1 (human) mapping to 22q12.2; Pik3ip1 (mouse) mapping to 11 A1.

SOURCE

PIK3IP1 (N-18) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an N-terminal extracellular domain of PIK3IP1 of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-86785 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.

RESEARCH USE

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

APPLICATIONS

PIK3IP1 (N-18) is recommended for detection of PIK3IP1 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 PIK3IP1-3.

PIK3IP1 (N-18) is also recommended for detection of PIK3IP1 in additional species, including canine and bovine.

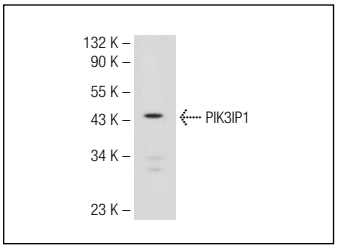
Suitable for use as control antibody for PIK3IP1 siRNA (h): sc-76141, PIK3IP1 siRNA (m): sc-152262, PIK3IP1 shRNA Plasmid (h): sc-76141-SH, PIK3IP1 shRNA Plasmid (m): sc-152262-SH, PIK3IP1 shRNA (h) Lentiviral Particles: sc-76141-V and PIK3IP1 shRNA (m) Lentiviral Particles: sc-152262-V.

Molecular Weight (predicted) of PIK3IP1 isoforms: 28/25/11 kDa.

Molecular Weight (observed) of PIK3IP1: 46 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227.

DATA



PIK3IP1 (N-18): sc-86785. Western blot analysis of PIK3IP1 expression in Hep G2 whole cell lysate.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

MONOS Satisfaction Guaranteed

Try **PIK3IP1 (B-1): sc-365777** or **PIK3IP1 (B-12): sc-365778**, our highly recommended monoclonal alternatives to PIK3IP1 (N-18).