SANTA CRUZ BIOTECHNOLOGY, INC.

HIPK4 (729C2C): sc-517659

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The Power to Question

BACKGROUND

The phosphorylation and dephosphorylation of proteins on serine and threonine residues is an essential means of regulating a broad range of cellular functions in eukaryotes, including cell division, homeostasis and apoptosis. The homeodomain-interacting protein kinases (HIPK1, HIPK2, HIPK3 and HIPK4) comprise a subfamily of kinase proteins that have a conserved protein kinase domain, as well as a separate domain that interacts with homeoproteins. HIPK4 (homeodomain-interacting protein kinase 4) is a 616 amino acid protein that localizes to the cytoplasm and exists as two isoforms that are produced by alternative splicing events. Like other members of the HIPK family, HIPK4 functions as a protein kinase that catalyzes the ATP-dependent phosphorylation of target proteins and is thought to act as a co-repressor of target transcription factors.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: HIPK4 (human) mapping to 19q13.2.

SOURCE

HIPK4 (729C2C) is a mouse monoclonal antibody raised against recombinant HIPK4 of human origin.

PRODUCT

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

APPLICATIONS

HIPK4 (729C2C) is recommended for detection of HIPK4 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000).

Suitable for use as control antibody for HIPK4 siRNA (h): sc-97189, HIPK4 shRNA Plasmid (h): sc-97189-SH and HIPK4 shRNA (h) Lentiviral Particles: sc-97189-V.

Molecular Weight of HIPK4: 80 kDa.

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 for detailed protocols and support products.