SANTA CRUZ BIOTECHNOLOGY, INC.

SH3PXD2B (T-13): sc-136857



BACKGROUND

SH3PXD2B (SH3 and PX domains 2B), also known as HOFI or FAD49, is a 911 amino acid protein that contains one PX domain and 4 SH3 domains. Localized to the nucleus, SH3PXD2B functions to bind to a wide range of phosphoinositides, such as phosphatidylinositol 3,5-biphosphate and, to a lesser extent, phosphatidylinositol 3-phosphate, and is thought to play a role in mitotic clonal expansion during adipocyte differentiation. The gene encoding SH3PXD2B maps to human chromosome 5, which contains 181 million base pairs and comprises nearly 6% of the human genome. Deletion of the p arm of chromosome 5 leads to Cri-du-chat syndrome, while deletion of the q arm or of chromosome 5 altogether is common in therapy-related acute myeloge-nous leukemias and myelodysplastic syndrome.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SH3PXD2B (human) mapping to 5q35.1; Sh3pxd2b (mouse) mapping to 11 A4.

SOURCE

SH3PXD2B (T-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of SH3PXD2B of human origin.

RESEARCH USE

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

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-136857 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

SH3PXD2B (T-13) is recommended for detection of SH3PXD2B of mouse, rat and 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).

SH3PXD2B (T-13) is also recommended for detection of SH3PXD2B in additional species, including equine, canine and bovine.

Suitable for use as control antibody for SH3PXD2B siRNA (h): sc-91980, SH3PXD2B siRNA (m): sc-153439, SH3PXD2B shRNA Plasmid (h): sc-91980-SH, SH3PXD2B shRNA Plasmid (m): sc-153439-SH, SH3PXD2B shRNA (h) Lentiviral Particles: sc-91980-V and SH3PXD2B shRNA (m) Lentiviral Particles: sc-153439-V.

Molecular Weight of SH3PXD2B: 102 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) Immunofluo-rescence: 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 or our catalog for detailed protocols and support products.