Nix (h): 293T Lysate: sc-113558



The Power to Question

BACKGROUND

The adenovirus E1B protein is a viral homolog of the Bcl-2 family of proteins that are involved in regulating cell death. A family of interacting proteins, which are designated Nip or Bnip and include Nip1, Nip2, Nip3 and Nix, associate with both the E1B protein and Bcl-2 proteins to mediate apoptotic signaling. Nip1 contains a hydrophobic transmembrane domain that enables its localization to the nuclear envelope, endoplasmic recticulum and mitochondria. Nip2 shares homology with the non-catalytic domain of Cdc42 GTPaseactivating protein (Cdc42GAP). Through binding to Cdc42GAP, Nip2 enhances the GTPase activity of Cdc42GAP, facilitating the hydrolysis of GTP bound to Cdc42x and thereby mediating the signaling pathways involving receptor kinases, small GTPases and apoptotic proteins. Nix, which is also designated Nip3L or BNIP3L, is highly related to Nip3 and both proteins localize to the mitochondria where they associate with Bcl-2 proteins. Nip3 preferentially binds to Bcl-x_L and induces apoptosis by suppressing the anti-apoptosis activity of Bcl-x_L.

REFERENCES

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- Wilhelm, M., et al. 2007. Proapoptotic Nix activates the JNK pathway by interacting with POSH and mediates death in a Parkinson disease model. J. Biol. Chem. 282: 1288-1295.

CHROMOSOMAL LOCATION

Genetic locus: BNIP3L (human) mapping to 8p21.2.

PRODUCT

Nix (h): 293T Lysate represents a lysate of human Nix transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

Nix (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive Nix antibodies. Recommended use: 10-20 µl per lane.

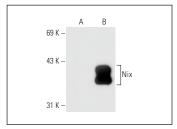
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-tranfected 293T cells.

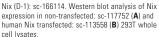
Nix (D-1): sc-166114 is recommended as a positive control antibody for Western Blot analysis of enhanced human Nix expression in Nix transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

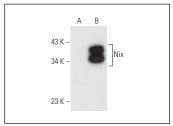
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG κ BP-HRP: sc-516102 or m-lgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz MarkerTM Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA







Nix (H-8): sc-166332. Western blot analysis of Nix expression in non-transfected: sc-117752 (A) and human Nix transfected: sc-113558 (B) 293T whole cell lysates.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. 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.