

Bex2 (h): 293 Lysate: sc-113220

BACKGROUND

The brain-expressed X-linked (Bex) family of proteins is expressed in the central nervous system, with highest levels detected in cerebellum, temporal lobe and pituitary tissues. Bex1 plays an important role in neuronal differentiation in response to nerve growth factor (NGF), as well as in cell cycle progression. Bex1 is a highly ubiquitinated protein and acts as a link between the cell cycle and neurotrophic factor signaling. Bex2 is highly expressed in the embryonic brain and interacts with LMO2, a LIM domain-containing transcriptional factor, thereby regulating the transcriptional activity of a DNA-binding complex. Bex1 and Bex2 shuttle between the cytoplasm and the nucleus. Bex2 may be implicated in tumor formation, since upregulation leads to increased sensitivity to chemotherapy-induced apoptosis. Bex2 also exhibits powerful tumor suppressor effects.

REFERENCES

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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.

CHROMOSOMAL LOCATION

Genetic locus: BEX2 (human) mapping to Xq22.1.

PRODUCT

Bex2 (h): 293 Lysate represents a lysate of human Bex2 transfected 293 cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

Bex2 (h): 293 Lysate is suitable as a Western Blotting positive control for human reactive Bex2 antibodies. Recommended use: 10-20 µl per lane.

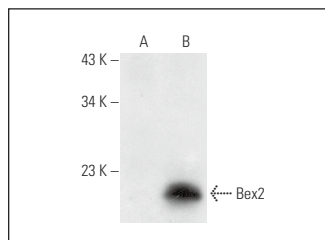
Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-transfected 293 cells.

Bex2 (C-12): sc-398486 is recommended as a positive control antibody for Western Blot analysis of enhanced human Bex2 expression in Bex2 transfected 293 cells (starting dilution 1:100, dilution range 1:100-1:1,000).

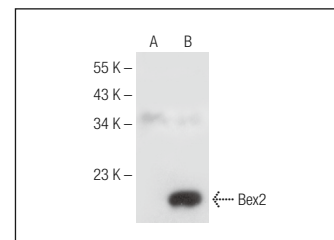
RECOMMENDED SUPPORT REAGENTS

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

DATA



Bex2 (C-12): sc-398486. Western blot analysis of Bex2 expression in non-transfected: sc-110760 (A) and human Bex2 transfected: sc-113220 (B) 293 whole cell lysates.



Bex1/2 (D-6): sc-376342. Western blot analysis of Bex2 expression in non-transfected: sc-110760 (A) and human Bex2 transfected: sc-113220 (B) 293 whole cell lysates.

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.