

BRE (h): 293 Lysate: sc-110575

BACKGROUND

Brain and reproductive organ-expressed protein (BRE) is a 415 amino acid protein which binds to the intracellular juxtamembrane domain of the death receptor, tumor necrosis factor receptor 1 (TNF-R1). BRE also binds to the death receptor, FAS. BRE downregulates TNF α -induced activation of NF κ B and may play a role in homeostasis or cellular differentiation in cells of epithelial, neural and germ line origins. It inhibits components of the death-inducing signaling complexes that are necessary for activation of the mitochondria, thereby mediating apoptosis. BRE is strongly expressed in the adrenal cortex, medulla, testis and pancreas, and is weakly expressed in the thymus, thyroid, stomach and small intestine. The BRE gene is responsive to DNA-damaging agents in fibroblasts, LPS in peripheral blood mononuclear cells (PBMC) and by retinoic acid in brain glioma.

REFERENCES

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5. Miao, J., Chan, K.W., Chen, G.G., Chun, S.Y., Xia, N.S., Chan, J.Y. and Panesar, N.S. 2005. Blocking BRE expression in Leydig cells inhibits steroidogenesis by downregulating 3 β -hydroxysteroid dehydrogenase. *J. Endocrinol.* 185: 507-517.

CHROMOSOMAL LOCATION

Genetic locus: BRE (human) mapping to 2p23.2.

PRODUCT

BRE (h): 293 Lysate represents a lysate of human BRE transfected 293 cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

BRE (h): 293 Lysate is suitable as a Western Blotting positive control for human reactive BRE antibodies.

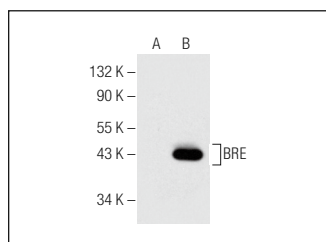
Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-transfected 293 cells.

BRE (D-2): sc-376453 is recommended as a positive control antibody for Western Blot analysis of enhanced human BRE expression in BRE 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-IgG κ BP-HRP: sc-516102 or m-IgG κ 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



BRE (D-2): sc-376453. Western blot analysis of BRE expression in non-transfected: sc-110760 (A) and human BRE transfected: sc-110575 (B) 293 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.