



## BRE (h): 293T Lysate: sc-170001

### 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 $\alpha$ -induced activation of NF $\kappa$ 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 $\beta$ -hydroxysteroid dehydrogenase. *J. Endocrinol.* 185: 507-517.

### CHROMOSOMAL LOCATION

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

### PRODUCT

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

### APPLICATIONS

BRE (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive BRE antibodies. Recommended use: 10-20  $\mu$ l per lane.

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

### STORAGE

Store at -20 $^{\circ}$  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](http://www.scbt.com) for detailed protocols and support products.