BACKGROUND

GREB1 (gene regulated in breast cancer 1 protein), is a 1,949 amino acid single-pass membrane protein that is expressed in proliferating prostatic tissue and prostate cancer and is strongly upregulated by 17β Estradiol. It is suggested that GREB1 may have an important role in hormone-responsive tissues and cancer. Regulated by androgens, GREB1 is critically involved in the estrogen induced proliferation in breast cancer cells. GREB1 is a potential clinical marker for response to endocrine therapy and as a potential therapeutic target. Four isoforms exist due to alternative splicing events.

REFERENCES


CHROMOSOMAL LOCATION

Genetic locus: GREB1 (human) mapping to 2p25.1; Greb1 (mouse) mapping to 12 A1.1.

SOURCE

GREB1 (N-13) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the N-terminus of GREB1 of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-138794 P, 100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA.

APPLICATIONS

GREB1 (N-13) is recommended for detection of GREB1 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunoprecipitation (1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)), immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:300).

GREB1 (N-13) is also recommended for detection of GREB1 in additional species, including equine.

Suitable for use as control antibody for GREB1 siRNA (h): sc-94993, GREB1 siRNA (m): sc-145759, GREB1 shRNA Plasmid (h): sc-94993-Sh, GREB1 shRNA Plasmid (m): sc-145759-Sh, GREB1 shRNA (h) Lentiviral Particles: sc-94993-V and GREB1 shRNA (m) Lentiviral Particles: sc-145759-V.

Molecular Weight of GREB1: 216 kDa.

Positive Controls: DU 145 cell lysate: sc-2268.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA

![Western blot analysis of GREB1 expression in DU 145 whole cell lysate.]

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. 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 or our catalog for detailed protocols and support products.