

AS250 (N-16): sc-85280

BACKGROUND

AS250 (250 kDa substrate of Akt) is a 1,873 amino acid protein encoded by a gene which maps to human chromosome 20. Representing about 2% of human DNA, chromosome 20 consists of approximately 63 million bases and 600 genes. Chromosome 20 contains a region with numerous genes expressed in the epididymis which are thought important for seminal production and some are viewed as potential targets for male contraception. The PRNP gene encoding the prion protein associated with spongiform encephalopathies, like Creutzfeldt-Jakob disease, is found on chromosome 20. Amyotrophic lateral sclerosis, spinal muscular atrophy, ring chromosome 20 epilepsy syndrome and Alagille syndrome are also associated with chromosome 20.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: RALGAP2 (human) mapping to 20p11.23; Ralgapa2 (mouse) mapping to 2 G1.

SOURCE

AS250 (N-16) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the N-terminus of AS250 of human origin.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

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-85280 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

AS250 (N-16) is recommended for detection of AS250 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

AS250 (N-16) is also recommended for detection of AS250 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for AS250 siRNA (h): sc-72541, AS250 siRNA (m): sc-141287, AS250 shRNA Plasmid (h): sc-72541-SH, AS250 shRNA Plasmid (m): sc-141287-SH, AS250 shRNA (h) Lentiviral Particles: sc-72541-V and AS250 shRNA (m) Lentiviral Particles: sc-141287-V.

Molecular Weight of AS250: 211 kDa.

Positive Controls: SK-BR-3 cell lysate: sc-2218 or TT whole cell lysate: sc-364195.

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.

RESEARCH USE

For research use only, not for use in diagnostic procedures.