

CCPG1 (X-21): sc-133446

BACKGROUND

CCPG1 (cell cycle progression 1), also known as CPR8, is a 757 amino acid single-pass type II membrane protein that acts as an assembly platform for Rho protein signaling complexes. Involved in cell cycle regulation, CCPG1 limits guanine nucleotide exchange activity of Dbs, a Rho-specific guanine nucleotide exchange factor, toward Rho A, which results in an inhibition of both its transcriptional activation ability and its transforming activity. Considered a novel scaffold protein, CCPG1 exists as four isoforms produced by alternative splicing events. The gene encoding CCPG1 maps to human chromosome 15, which houses over 700 genes and comprises nearly 3% of the human genome. Angelman syndrome, Prader-Willi syndrome, Tay-Sachs disease and Marfan syndrome are all associated with defects in chromosome 15-localized genes.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CCPG1 (human) mapping to 15q21.3.

SOURCE

CCPG1 (X-21) is an affinity purified rabbit polyclonal antibody raised against synthetic CCPG1 peptide of human origin.

PRODUCT

Each vial contains 50 µg IgG in 500 µl PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

RESEARCH USE

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

APPLICATIONS

CCPG1 (X-21) is recommended for detection of CCPG1 of 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for CCPG1 siRNA (h): sc-90150, CCPG1 shRNA Plasmid (h): sc-90150-SH and CCPG1 shRNA (h) Lentiviral Particles: sc-90150-V.

Molecular Weight of CCPG1 isoforms: 87/72/68/49 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227.

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).

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.