

KIAA0754 (P-17): sc-247272

BACKGROUND

KIAA0754 is a 1,291 amino acid protein that contains several repeat domains and is post-translationally modified at multiple serine residues. KIAA0754 exists as 2 alternatively spliced isoforms and is encoded by a gene that maps to human chromosome 1. Chromosome 1 is the largest chromosome spanning about 260 million base pairs and making up 8% of the human genome. There are about 3,000 genes on chromosome 1, and considering the great number of genes there are also a large number of diseases associated with chromosome 1. Notably, the rare aging disease Hutchinson-Gilford progeria is associated with the LMNA gene, which encodes lamin A. When defective, the LMNA gene product can build up in the nucleus and cause characteristic nuclear blebs. The mechanism of rapidly enhanced aging is unclear and is a topic of continuing exploration. The MUTYH gene is located on chromosome 1 and is partially responsible for familial adenomatous polyposis. Stickler syndrome, Parkinsons, Gaucher disease and Usher syndrome are also associated with chromosome 1.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: KIAA0754 (human) mapping to 1p34.3; D830031N03Rik (mouse) mapping to 4 D2.2.

SOURCE

KIAA0754 (P-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of KIAA0754 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-247272 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

KIAA0754 (P-17) is recommended for detection of KIAA0754 of human origin, D830031N03Rik of mouse origin and the corresponding rat homolog by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

KIAA0754 (P-17) is also recommended for detection of KIAA0754 in additional species, including bovine.

Suitable for use as control antibody for KIAA0754 siRNA (h): sc-88406, KIAA0754 siRNA (m): sc-146447, KIAA0754 shRNA Plasmid (h): sc-88406-SH, KIAA0754 shRNA Plasmid (m): sc-146447-SH, KIAA0754 shRNA (h) Lentiviral Particles: sc-88406-V and KIAA0754 shRNA (m) Lentiviral Particles: sc-146447-V.

Molecular Weight of KIAA0754 isoforms: 135/105 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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.