SANTA CRUZ BIOTECHNOLOGY, INC.

KIAA0556 (D-15): sc-164757

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

KIAA0494 is a 495 amino acid protein that contains two EF-hand domians and is post translationally modified at serine residue 406. The gene encoding KIAA0494 maps to human chromosome 1, which is the largest human 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 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. A breakpoint has been identified in 1q which disrupts the DISC1 gene and is linked to schizophrenia. Aberrations in chromosome 1 are found in a variety of cancers including head and neck cancer, malignant melanoma and multiple myeloma.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: KIAA0556 (human) mapping to 16p12.1; D430042O09Rik (mouse) mapping to 7 F3.

RESEARCH USE

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

SOURCE

KIAA0556 (D-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of KIAA0556 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-164757 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

KIAA0556 (D-15) is recommended for detection of KIAA0556 of human origin, D430042O09Rik of mouse origin and the corresponding homolog of rat origin 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); non cross-reactive with other KIAA family members.

KIAA0556 (D-15) is also recommended for detection of KIAA0556 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for KIAA0556 siRNA (h): sc-93273, D430042O09Rik siRNA (m): sc-142824, KIAA0556 shRNA Plasmid (h): sc-93273-SH, D430042O09Rik shRNA Plasmid (m): sc-142824-SH, KIAA0556 shRNA (h) Lentiviral Particles: sc-93273-V and D430042O09Rik shRNA (m) Lentiviral Particles: sc-142824-V.

Molecular Weight of KIAA0556: 181 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.

PROTOCOLS

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