SANTA CRUZ BIOTECHNOLOGY, INC.

KIAA0232 (E-14): sc-164745

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The Power to Question

BACKGROUND

KIAA0232 is a 1,395 amino acid protein that contains one ATP binding site. KIAA0232 is post-translationally phosphoylated at amino acid residue 158 (Ser). The gene encoding KIAA0232 maps to human chromosome 4. Representing approximately 6% of the human genome, chromosome 4 contains nearly 900 genes. Notably, the Huntington gene, which is found to encode an expanded glutamine tract in cases of Huntington's disease, is on chromosome 4. FGFR-3 is also localized to chromosome 4 and has been associated with thanatophoric dwarfism, achondroplasia, Muenke syndrome and bladder cancer. Chromosome 4 is also tied to Ellis-van Creveld syndrome, methylmalonic acidemia and polycystic kidney disease. Chromosome 4 reportedly contains the largest gene deserts (regions of the genome with no protein encoding genes) and has one of the two lowest recombination frequencies of the human chromosomes.

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CHROMOSOMAL LOCATION

Genetic locus: KIAA0232 (human) mapping to 4p16.1; D5Ertd579e (mouse) mapping to 5 B3.

SOURCE

KIAA0232 (E-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of KIAA0232 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-164745 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

KIAA0232 (E-14) is recommended for detection of KIAA0232 of human origin and D5Ertd579e of mouse 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.

KIAA0232 (E-14) is also recommended for detection of KIAA0232 in additional species, including equine and canine.

Suitable for use as control antibody for KIAA0232 siRNA (h): sc-88928, D5Ertd579e siRNA (m): sc-142832, KIAA0232 shRNA Plasmid (h): sc-88928-SH, D5Ertd579e shRNA Plasmid (m): sc-142832-SH, KIAA0232 shRNA (h) Lentiviral Particles: sc-88928-V and D5Ertd579e shRNA (m) Lentiviral Particles: sc-142832-V.

Molecular Weight of KIAA0232: 155 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.