

KIAA0947 (E-17): sc-243173

BACKGROUND

KIAA0947 is a 2,266 amino acid protein that contains one coiled coil domain and is post-translationally phosphorylated at several serine residues. KIAA0947 also undergoes one phosphorylation event at threonine residue 1675 and may become acetylated at lysine 1218. The gene encoding KIAA0947 maps to human chromosome 5, which contains 181 million base pairs and comprises nearly 6% of the human genome. Chromosome 5 is associated with Cockayne syndrome through the ERCC8 gene and familial adenomatous polyposis through the adenomatous polyposis *coli* (APC) tumor suppressor gene. Treacher Collins syndrome is also chromosome 5-associated and is caused by insertions or deletions within the TCOF1 gene. Deletion of the p arm of chromosome 5 leads to Cri du chat syndrome, while deletion of the q arm of chromosome 5 altogether is common in therapy-related acute myelogenous leukemias and myelodysplastic syndrome.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: KIAA0947 (human) mapping to 5p15.32.

SOURCE

KIAA0947 (E-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of KIAA0947 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-243173 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

KIAA0947 (E-17) is recommended for detection of KIAA0947 of mouse, rat and human 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).

KIAA0947 (E-17) is also recommended for detection of KIAA0947 in additional species, including equine and canine.

Suitable for use as control antibody for KIAA0947 siRNA (h): sc-91833, BC018507 siRNA (m): sc-141516, KIAA0947 shRNA Plasmid (h): sc-91833-SH, BC018507 shRNA Plasmid (m): sc-141516-SH, KIAA0947 shRNA (h) Lentiviral Particles: sc-91833-V and BC018507 shRNA (m) Lentiviral Particles: sc-141516-V.

Molecular Weight of KIAA0947: 248 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.