

KIAA1468 (N-19): sc-84867

BACKGROUND

KIAA1468 is a 1,216 amino acid protein that contains 3 HEAT repeats and one LisH domain. KIAA1468 undergoes acetylation at alanine 2 as well as several post-translational phosphorylation events at serine and threonine residues. Alternatively spliced into two isoforms, the gene encoding KIAA1468 maps to human chromosome 18. Chromosome 18 encodes over 300 genes and contains about 76 million bases. Trisomy 18, or Edwards syndrome, is the second most common trisomy after Downs syndrome. Symptoms of Edwards syndrome include low birth weight, a variety of physical development defects, heart deformations and breathing difficulty. Translocation between chromosome 18 and 14 is the most common translocation in cancers, and occurs in follicular lymphomas. Niemann-Pick disease, hereditary hemorrhagic telangiectasia and erythropoietic protoporphyria are associated with chromosome 18. The TGF β modulators, Smad2, Smad4 and Smad7 are encoded by chromosome 18.

REFERENCES

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3. Nagase, T., et al. 2000. Prediction of the coding sequences of unidentified human genes. XVII. The complete sequences of 100 new cDNA clones from brain which code for large proteins *in vitro*. *DNA Res.* 7: 143-150.
4. Petek, E., et al. 2003. Characterisation of a 19-year-old "long-term survivor" with Edwards syndrome. *Genet. Couns.* 14: 239-244.
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CHROMOSOMAL LOCATION

Genetic locus: KIAA1468 (human) mapping to 18q21.33; 2310035C23Rik (mouse) mapping to 1 E2.1.

SOURCE

KIAA1468 (N-19) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the N-terminus of KIAA1468 of human origin.

PRODUCT

Each vial contains 100 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-84867 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

KIAA1468 (N-19) is recommended for detection of KIAA1468 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).

KIAA1468 (N-19) is also recommended for detection of KIAA1468 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for KIAA1468 siRNA (h): sc-75385, 2310035C23Rik siRNA (m): sc-108687, KIAA1468 shRNA Plasmid (h): sc-75385-SH, 2310035C23Rik shRNA Plasmid (m): sc-108687-SH, KIAA1468 shRNA (h) Lentiviral Particles: sc-75385-V and 2310035C23Rik shRNA (m) Lentiviral Particles: sc-108687-V.

Molecular Weight of KIAA1468 isoforms: 135/139 kDa.

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) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (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.