SANTA CRUZ BIOTECHNOLOGY, INC.

KIAA2018 (C-18): sc-99481

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Chromosome 3 is made up of about 214 million bases encoding over 1,100 genes. Notably, there is a chemokine receptor gene cluster and a variety of human cancer related loci on chromosome 3. Particular regions of the chromosome 3 short arm are deleted in many types of cancer cells. Key tumor suppressing genes on chromosome 3 encode apoptosis mediator RASSF1, cell migration regulator HYAL1 and angiogenesis suppressor SEMA3B. Marfan Syndrome, porphyria, von Hippel-Lindau syndrome, osteogenesis imperfecta and Charcot-Marie-Tooth disease are a few of the numerous genetic diseases associated with chromosome 3. The KIAA2018 gene product has been provisionally designated KIAA2018 pending further characterization.

REFERENCES

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3. Tsend-Ayush, E., Grützner, F., Yue, Y., Grossmann, B., Hänsel, U., Sudbrak, R. and Haaf, T. 2004. Plasticity of human chromosome 3 during primate evolution. Genomics 83: 193-202.
4. Yue, Y., Grossmann, B., Ferguson-Smith, M., Yang, F. and Haaf, T. 2005. Comparative cytogenetics of human chromosome 3q21.3 reveals a hot spot for ectopic recombination in hominoid evolution. Genomics 85: 36-47.
5. Darai, E., Kost-Alimova, M., Kiss, H., Kansoul, H., Klein, G. and Imreh, S. 2005. Evolutionarily plastic regions at human 3p21.3 coincide with tumor breakpoints identified by the "elimination test". Genomics 86: 1-12.
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CHROMOSOMAL LOCATION

Genetic locus: KIAA2018 (human) mapping to 3q13.2; Gm608 (mouse) mapping to 16 B4.

SOURCE

KIAA2018 (C-18) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping at the C-terminus of KIAA2018 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-99481 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

KIAA2018 (C-18) is recommended for detection of KIAA2018 of human origin, Gm608 of mouse origin and the corresponding rat homolog by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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).

KIAA2018 (C-18) is also recommended for detection of KIAA2018 in additional species, including equine, canine, bovine, porcine and avian.

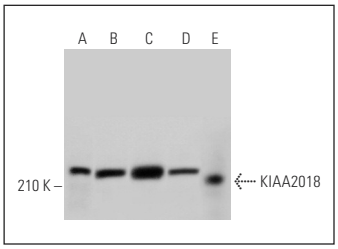
Suitable for use as control antibody for KIAA2018 siRNA (h): sc-77958, Gm608 siRNA (m): sc-145583, KIAA2018 shRNA Plasmid (h): sc-77958-SH, Gm608 shRNA Plasmid (m): sc-145583-SH, KIAA2018 shRNA (h) Lentiviral Particles: sc-77958-V and Gm608 shRNA (m) Lentiviral Particles: sc-145583-V.

Positive Controls: Raji whole cell lysate: sc-364236, K-562 nuclear extract: sc-2130 or HeLa whole cell lysate: sc-2200.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



KIAA2018 (C-18): sc-99481. Western blot analysis of KIAA2018 expression in HeLa (**A**), BJAB (**B**), Raji (**C**) and OVCAR-3 (**D**) whole cell lysates and K-562 nuclear extract (**E**).

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.