KIAA1549 (G-19): sc-247317



The Power to Question

BACKGROUND

KIAA1549 is a 1,950 amino acid multi-pass membrane protein that belongs to the UPF0606 family. Existing as four alternatively spliced isoforms, KIAA1549 is encoded by a gene that maps to human chromosome 7q34. Chromosome 7 houses over 1,000 genes and comprises nearly 5% of the human genome. Chromosome 7 has been linked to osteogenesis imperfecta, Pendred syndrome, lissencephaly, citrullinemia and Shwachman-Diamond syndrome. The deletion of a portion of the q arm of chromosome 7 is associated with Williams-Beuren syndrome, a condition characterized by mild mental retardation, an unusual comfort and friendliness with strangers and an elfin appearance. Deletions of portions of the q arm of chromosome 7 are also seen in a number of myeloid disorders including cases of acute myelogenous leukemia and myelodysplasia.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: KIAA1549 (human) mapping to 7q34; D630045J12Rik (mouse) mapping to 6 B1.

SOURCE

KIAA1549 (G-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of KIAA1549 of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-247317 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

KIAA1549 (G-19) is recommended for detection of KIAA1549 of human origin, D630045J12Rik of mouse origin and the corresponding rat homolog 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).

KIAA1549 (G-19) is also recommended for detection of KIAA1549 in additional species, including equine, bovine and porcine.

Suitable for use as control antibody for D630045J12Rik siRNA (m): sc-142844, D630045J12Rik shRNA Plasmid (m): sc-142844-SH and D630045J12Rik shRNA (m) Lentiviral Particles: sc-142844-V.

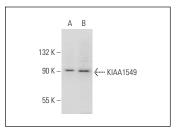
Molecular Weight of KIAA1549 isoforms: 211/209/78/80 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200 or Jurkat whole cell lysate: sc-2204.

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.

DATA



KIAA1549 (G-19): sc-247317. Western blot analysis of KIAA1549 expression in HeLa (A) and Jurkat (B) whole cell lysates

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.