

# KIAA0513 (G-17): sc-164754

## BACKGROUND

KIAA0513 is a 411 amino acid protein that localizes to the cytoplasm. KIAA0513 is highly expressed in the brain cortex, cerebellum, hippocampus, amygdala, pons and putamen. As the expression is high in neurons, KIAA0513 is also present in glial cells. In schizophrenic patients, higher levels are observed in the dorsolateral prefrontal cortex as compared to control patients. KIAA0513 exists as 2 alternatively spliced isoforms and maps to human chromosome 16, which encodes over 900 genes and comprises nearly 3% of the human genome. The GAN gene is located on chromosome 16 and, with mutation, may lead to giant axonal neuropathy, a nervous system disorder characterized by increasing malfunction with growth. The rare disorder Rubinstein-Taybi syndrome is also associated with chromosome 16, as is Crohn's disease, which is a gastrointestinal inflammatory condition.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: KIAA0513 (human) mapping to 16q24.1; 6430548M08Rik (mouse) mapping to 8 E1.

## SOURCE

KIAA0513 (G-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of KIAA0513 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-164754 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

KIAA0513 (G-17) is recommended for detection of 6430548M08Rik of mouse origin and KIAA0513 of 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); non cross-reactive with other KIAA family members.

KIAA0513 (G-17) is also recommended for detection of KIAA0513 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for KIAA0513 siRNA (h): sc-93400, 6430548M08Rik siRNA (m): sc-140458, KIAA0513 shRNA Plasmid (h): sc-93400-SH, 6430548M08Rik shRNA Plasmid (m): sc-140458-SH, KIAA0513 shRNA (h) Lentiviral Particles: sc-93400-V and 6430548M08Rik shRNA (m) Lentiviral Particles: sc-140458-V.

Molecular Weight of KIAA0513 isoforms: 47/34 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](http://www.scbt.com) or our catalog for detailed protocols and support products.