

# KIAA0753 (D-18): sc-247268

## BACKGROUND

KIAA0753 is a 967 amino acid protein that contains one coiled coil domain and exists as 2 alternatively spliced isoforms. The gene encoding KIAA0753 maps to human chromosome 17, which comprises over 2.5% of the human genome, contains approximately 81 million bases and encodes over 1,200 genes. Two key tumor suppressor genes are associated with chromosome 17, namely, p53 and BRCA1. Tumor suppressor p53 is necessary for maintenance of cellular genetic integrity by moderating cell fate through DNA repair versus cell death. Malfunction or loss of p53 expression is associated with malignant cell growth and Li-Fraumeni syndrome. Like p53, BRCA1 is directly involved in DNA repair, though it is specifically recognized as a genetic determinant of early onset breast cancer and predisposition to cancers of the ovary, colon, prostate gland and fallopian tubes. Chromosome 17 is also linked to neurofibromatosis, a condition characterized by neural and epidermal lesions, and dysregulated Schwann cell growth. Alexander disease, Birt-Hogg-Dube syndrome and Canavan disease are also associated with chromosome 17.

## REFERENCES

1. Welsch, M.J., et al. 2005. Birt-hogg-dube syndrome. *Int. J. Dermatol.* 44: 668-673.
2. Nusbaum, R., et al. 2006-2007. Susceptibility to breast cancer: hereditary syndromes and low penetrance genes. *Breast Dis.* 27: 21-50.
3. Al-Dirbashi, O.Y., et al. 2007. Quantification of N-acetylaspartic acid in urine by LC-MS/MS for the diagnosis of Canavan disease. *J. Inher. Metab. Dis.* 30: 612.
4. Bechtel, S., et al. 2007. The full-ORF clone resource of the German cDNA consortium. *BMC Genomics.* 8: 399.
5. Farrell, C.J. and Plotkin, S.R. 2007. Genetic causes of brain tumors: neurofibromatosis, tuberous sclerosis, von Hippel-Lindau, and other syndromes. *Neurol. Clin.* 25: 925-946.

## CHROMOSOMAL LOCATION

Genetic locus: KIAA0753 (human) mapping to 17p13.2; 4933427D14Rik (mouse) mapping to 11 B4.

## SOURCE

KIAA0753 (D-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of KIAA0753 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-247268 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## APPLICATIONS

KIAA0753 (D-18) is recommended for detection of KIAA0753 of human origin, 4933427D14Rik 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).

KIAA0753 (D-18) is also recommended for detection of KIAA0753 in additional species, including porcine.

Suitable for use as control antibody for KIAA0753 siRNA (h): sc-93808, 4933427D14Rik siRNA (m): sc-140316, KIAA0753 shRNA Plasmid (h): sc-93808-SH, 4933427D14Rik shRNA Plasmid (m): sc-140316-SH, KIAA0753 shRNA (h) Lentiviral Particles: sc-93808-V and 4933427D14Rik shRNA (m) Lentiviral Particles: sc-140316-V.

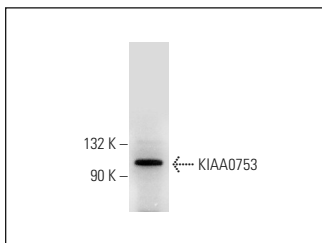
Molecular Weight of KIAA0753 isoforms: 109/75 kDa.

Positive Controls: K-562 whole cell lysate: sc-2203.

## 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



KIAA0753 (D-18): sc-247268. Western blot analysis of KIAA0753 expression in K-562 whole cell lysate.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

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Try **KIAA0753 (B-3): sc-398879**, our highly recommended monoclonal alternative to KIAA0753 (D-18).