

# C17orf75 (S-19): sc-242092

## BACKGROUND

C17orf75 (chromosome 17 open reading frame 75) is a 396 amino acid protein that is encoded by a gene mapping to human chromosome 17. Chromosome 17 makes up over 2.5% of the human genome with about 81 million bases encoding 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, specifically it is 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.

## CHROMOSOMAL LOCATION

Genetic locus: C17orf75 (human) mapping to 17q11.2; 5730455P16Rik (mouse) mapping to 11 B5.

## SOURCE

C17orf75 (S-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of C17orf75 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-242092 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

C17orf75 (S-19) is recommended for detection of C17orf75 of human origin, 5730455P16Rik 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).

C17orf75 (S-19) is also recommended for detection of C17orf75 in additional species, including equine, canine and porcine.

Suitable for use as control antibody for C17orf75 siRNA (h): sc-93862, 5730455P16Rik siRNA (m): sc-140382, C17orf75 shRNA Plasmid (h): sc-93862-SH, 5730455P16Rik siRNA (m): sc-140382-SH, C17orf75 shRNA (h) Lentiviral Particles: sc-93862-V and 5730455P16Rik siRNA (m): sc-140382-V.

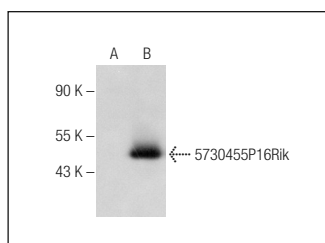
Molecular Weight of C17orf75: 45 kDa.

Positive Controls: 5730455P16Rik (m) 293T whole cell lysate: sc-124890.

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



C17orf75 (S-19): sc-242092. Western blot analysis of 5730455P16Rik expression in non-transfected: sc-117752 (A) and mouse 5730455P16Rik transfected: sc-124890 (B) 293T whole cell lysates.

## 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.

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Try **C17orf75 (H-17): sc-81862**, our highly recommended monoclonal alternative to C17orf75 (S-19).