

# C18orf54 (T-17): sc-84758

## BACKGROUND

Encoding over 300 genes, chromosome 18 contains about 76 million bases. Trisomy 18, or Edwards syndrome, is the second most common trisomy after Down's syndrome. Symptoms of Edwards syndrome include low birth weight, a variety of physical development defects, heart deformations and breathing difficulty. Translocation between chromosome 18 and 14 is the most common translocation in cancers, and occurs in follicular lymphomas. Niemann-Pick disease, hereditary hemorrhagic telangiectasia and erythropoietic protoporphyria are associated with chromosome 18. The TGF $\beta$  modulators, Smad2, Smad4 and Smad7 are encoded by chromosome 18. The C18orf54 gene product has been provisionally designated C18orf54 pending further characterization.

## REFERENCES

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- Aurizi, C., Schneider-Yin, X., Sorge, F., Macri, A., Minder, E.I. and Biolcati, G. 2007. Heterogeneity of mutations in the ferroxidase gene in Italian patients with erythropoietic protoporphyria. *Mol. Genet. Metab.* 90: 402-407.

## CHROMOSOMAL LOCATION

Genetic locus: C18orf54 (human) mapping to 18q21.2; 4930503L19Rik (mouse) mapping to 18 E2.

## SOURCE

C18orf54 (T-17) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of C18orf54 of human origin.

## PRODUCT

Each vial contains 100  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-84758 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## RESEARCH USE

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

## APPLICATIONS

C18orf54 (T-17) is recommended for detection of C18orf54 of human origin, 4930503L19Rik of mouse origin and the corresponding rat homolog by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g 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).

C18orf54 (T-17) is also recommended for detection of C18orf54 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for C18orf54 siRNA (h): sc-72687, 4930503L19Rik siRNA (m): sc-140108, C18orf54 shRNA Plasmid (h): sc-72687-SH, 4930503L19Rik shRNA Plasmid (m): sc-140108-SH, C18orf54 shRNA (h) Lentiviral Particles: sc-72687-V and 4930503L19Rik shRNA (m) Lentiviral Particles: sc-140108-V.

Molecular Weight (predicted) of C18orf54 isoforms: 42/60 kDa.

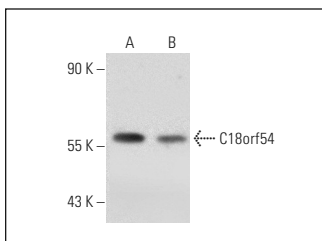
Molecular Weight (observed) of C18orf54: 57 kDa.

Positive Controls: K-562 whole cell lysate: sc-2203 or SK-N-MC cell lysate: sc-2237.

## 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



C18orf54 (T-17): sc-84758. Western blot analysis of C18orf54 expression in K-562 (A) and SK-N-MC (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.