

# C18orf18 (S-20): sc-84728

## BACKGROUND

C18orf18 (chromosome 18 open reading frame 18) is a 95 amino acid protein encoded by a gene located on human chromosome 18. Chromosome 18 houses over 300 protein-coding genes and contains nearly 76 million nucleotide bases. There are a variety of diseases associated with defects in chromosome 18-localized genes, some of which include Trisomy 18 (also known as Edwards syndrome), Niemann-Pick disease, hereditary hemorrhagic telangiectasia, erythropoietic protoporphyria and follicular lymphomas.

## REFERENCES

1. Yoshikawa, T., Sanders, A.R., Esterling, L.E., Overhauser, J., Garnes, J.A., Lennon, G., Grewal, R. and Detera-Wadleigh, S.D. 1997. Isolation of chromosome 18-specific brain transcripts as positional candidates for bipolar disorder. *Am. J. Med. Genet.* 74: 140-149.
2. Esterling, L.E., Cox Matise, T., Sanders, A.R., Yoshikawa, T., Overhauser, J., Gershon, E.S., Moskowitz, M.T. and Detera-Wadleigh, S.D. 1997. An integrated physical map of 18p11.2: a susceptibility region for bipolar disorder. *Mol. Psychiatry* 2: 501-504.
3. Grosso, S., Pucci, L., Di Bartolo, R.M., Gobbi, G., Bartalini, G., Anichini, C., Scarinci, R., Balestri, M., Farnetani, M.A., Cioni, M., Morgese, G. and Balestri, P. 2005. Chromosome 18 aberrations and epilepsy: a review. *Am. J. Med. Genet. A* 134: 88-94.
4. Nusbaum, C., Zody, M.C., Borowsky, M.L., Kamal, M., Kodira, C.D., Taylor, T.D., Whittaker, C.A., Chang, J.L., Cuomo, C.A., Dewar, K., FitzGerald, M.G., Yang, X., Abouelleil, A., Allen, N.R., Anderson, S., et al. 2005. DNA sequence and analysis of human chromosome 18. *Nature* 437: 551-555.
5. Pickard, B.S., Malloy, M.P., Clark, L., Lehellard, S., Ewald, H.L., Mors, O., Porteous, D.J., Blackwood, D.H. and Muir, W.J. 2005. Candidate psychiatric illness genes identified in patients with pericentric inversions of chromosome 18. *Psychiatr. Genet.* 15: 37-44.

## CHROMOSOMAL LOCATION

Genetic locus: C18orf18 (human) mapping to 18p11.31.

## SOURCE

C18orf18 (S-20) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the N-terminus of C18orf18 of human origin.

## PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-84728 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

C18orf18 (S-20) is recommended for detection of C18orf18 of human origin 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).

Suitable for use as control antibody for C18orf18 siRNA (h): sc-72675, C18orf18 shRNA Plasmid (h): sc-72675-SH and C18orf18 shRNA (h) Lentiviral Particles: sc-72675-V.

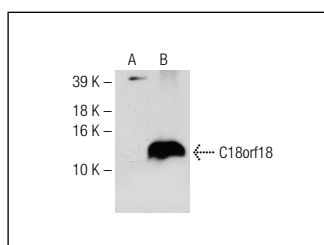
Molecular Weight of C18orf18: 10 kDa.

Positive Controls: C18orf18 (h): 293T Lysate: sc-112280.

## 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



C18orf18 (S-20): sc-84728. Western blot analysis of C18orf18 expression in non-transfected: sc-117752 (A) and human C18orf18 transfected: sc-112280 (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.