

# ODF3B (L-18): sc-86568



The Power to Question

## BACKGROUND

ODF3B (outer dense fiber protein 3B), also known as ODF3L3 (outer dense fiber protein 3-like protein 3), is a 253 amino acid protein belonging to the ODF3 family. Existing as two isoforms produced by alternative splicing, ODF3B contains one DUF1309 repeat. The gene that encodes ODF3B maps to human chromosome 22, which contains over 500 genes and about 49 million bases. Being the second smallest human chromosome, 22 contains a surprising variety of interesting genes. Phelan-McDermid syndrome, Neurofibromatosis type 2 and autism are associated with chromosome 22. A schizophrenia susceptibility locus has been identified on chromosome 22 and studies show that 22q11 deletion symptoms include a high incidence of schizophrenia. Translocations between chromosomes 9 and 22 may lead to the formation of the Philadelphia Chromosome and the subsequent production of the novel fusion protein, Bcr -Abl, a potent cell proliferation activator found in several types of leukemia.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: ODF3B (human) mapping to 22q13.33.

## RESEARCH USE

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

## SOURCE

ODF3B (L-18) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of ODF3B 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-86568 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

ODF3B (L-18) is recommended for detection of ODF3B 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).

Suitable for use as control antibody for ODF3B siRNA (h): sc-75494, ODF3B shRNA Plasmid (h): sc-75494-SH and ODF3B shRNA (h) Lentiviral Particles: sc-75494-V.

Molecular Weight of ODF3B: 27 kDa.

## 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) 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.

## STORAGE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.