

ATPBD4 (K-19): sc-169978

BACKGROUND

ATPBD4 (ATP-binding domain-containing protein 4) is a 267 amino acid protein that is considered a complete proteome. The ATPBD4 gene is conserved in chimpanzee, canine, bovine, mouse, rat, chicken, zebrafish, fruit fly, mosquito, *C. elegans*, *S. pombe*, *S. cerevisiae*, *K. lactis*, *E. gossypii*, *A. thaliana* and *P. falciparum*, and maps to human chromosome 15q14. Encoding more than 700 genes, chromosome 15 is made up of approximately 106 million base pairs and is about 3% of the human genome. Angelman and Prader-Willi syndromes are associated with loss of function or deletion of genes in the 15q11-q13 region. In the case of Angelman syndrome, this loss is due to inactivity of the maternal 15q11-q13 encoded UBE3A gene in the brain by either chromosomal deletion or mutation. In cases of Prader-Willi syndrome, there is a partial or complete deletion of this region from the paternal copy of chromosome 15. Tay-Sachs disease is a lethal disorder associated with mutations of the HEXA gene, which is encoded by chromosome 15. Marfan syndrome is associated with chromosome 15 through the FBN1 gene.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ATPBD4 (human) mapping to 15q14; Atpbd4 (mouse) mapping to 2 E4.

SOURCE

ATPBD4 (K-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ATPBD4 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-169978 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ATPBD4 (K-19) is recommended for detection of ATPBD4 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ 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); non cross-reactive with ATPBD3.

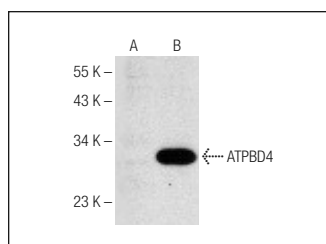
ATPBD4 (K-19) is also recommended for detection of ATPBD4 in additional species, including canine, bovine and avian.

Suitable for use as control antibody for ATPBD4 siRNA (h): sc-90058, ATPBD4 siRNA (m): sc-141373, ATPBD4 shRNA Plasmid (h): sc-90058-SH, ATPBD4 shRNA Plasmid (m): sc-141373-SH, ATPBD4 shRNA (h) Lentiviral Particles: sc-90058-V and ATPBD4 shRNA (m) Lentiviral Particles: sc-141373-V.

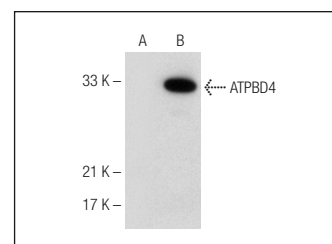
Molecular Weight of ATPBD4: 30 kDa.

Positive Controls: ATPBD4 (h): 293T Lysate: sc-117020.

DATA



ATPBD4 (K-19): sc-169978. Western blot analysis of ATPBD4 expression in non-transfected: sc-117752 (A) and human ATPBD4 transfected: sc-117020 (B) 293T whole cell lysates.



ATPBD4 (K-19): sc-169978. Western blot analysis of ATPBD4 expression in non-transfected: sc-117752 (A) and human ATPBD4 transfected: sc-117020 (B) 293T 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.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.