SANTA CRUZ BIOTECHNOLOGY, INC.

# ASPHD2 (T-17): sc-86076

SANTA CRUZ BIOTECHNOLOGY

*The Power to Question*

## BACKGROUND

ASPHD2 (aspartate β-hydroxylase domain containing 2) is a 369 amino acid single-pass type II membrane protein belonging to the aspartyl/asparaginyl β-hydroxylase family. ASPHD2 is encoded by a gene mapping to human chromosome 22q12.1 and mouse chromosome 5 F. Human chromosome 22 houses over 500 genes and is the second smallest human chromosome. Mutations in several of the genes that map to chromosome 22 are involved in the development of Phelan-McDermid syndrome, neurofibromatosis type 2, autism and schizophrenia. Additionally, 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 leukemias.

## REFERENCES


1. Briegel, W., et al. 2004. Chromosome 22q11 deletion syndrome and its relevance for child and adolescent psychiatry. An overview of etiology, physical symptoms, aspects of child development and psychiatric disorders. Z. Kinder Jugendpsychiatr. Psychother. 32: 107-115.
2. Gothelf, D., et al. 2008. Genes, brain development and psychiatric phenotypes in velo-cardio-facial syndrome. Dev. Disabil. Res. Rev. 14: 59-68.
3. Sathyamoorthi, S., et al. 2009. Array analysis and molecular studies of Ini1 in an infant with deletion 22q13 (Phelan-McDermid syndrome) and atypical teratoid/rhabdoid tumor. Am. J. Med. Genet. A 149A: 1067-1069.
4. Vorstman, J.A., et al. 2009. Association of the PIK4CA schizophrenia-susceptibility gene in adults with the 22q11.2 deletion syndrome. Am. J. Med. Genet. B Neuropsychiatr. Genet. 150B: 430-433.
5. Bennour, A., et al. 2009. Molecular cytogenetic characterization of variant Philadelphia translocations in chronic myeloid leukemia: genesis and deletion of derivative chromosome 9. Cancer Genet. Cytogenet. 194: 30-37.
6. Evans, D.G. 2009. Neurofibromatosis 2 [bilateral acoustic neurofibromatosis, central neurofibromatosis, NF2, neurofibromatosis type II]. Genet. Med. 11: 599-610.
7. Ravandi, F., et al. 2009. Philadelphia chromosome-positive acute lymphoblastic leukemia. Hematol. Oncol. Clin. North Am. 23: 1043-1063.


## CHROMOSOMAL LOCATION

Genetic locus: ASPHD2 (human) mapping to 22q12.1; Asphd2 (mouse) mapping to 5 F.

## SOURCE

ASPHD2 (T-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ASPHD2 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-86076 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

ASPHD2 (T-17) is recommended for detection of ASPHD2 of mouse, rat and 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).

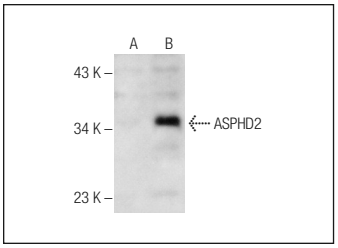
ASPHD2 (T-17) is also recommended for detection of ASPHD2 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for ASPHD2 siRNA (h): sc-72567, ASPHD2 siRNA (m): sc-141306, ASPHD2 shRNA Plasmid (h): sc-72567-SH, ASPHD2 shRNA Plasmid (m): sc-141306-SH, ASPHD2 shRNA (h) Lentiviral Particles: sc-72567-V and ASPHD2 shRNA (m) Lentiviral Particles: sc-141306-V.

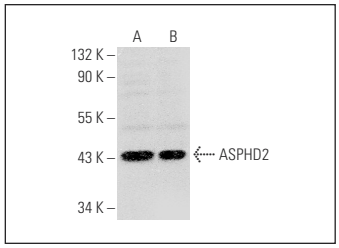
Molecular Weight of ASPHD2: 42 kDa.

Positive Controls: ASPHD2 (h): 293T Lysate: sc-115022, MCF7 whole cell lysate: sc-2206 or HeLa whole cell lysate: sc-2200.

## DATA




ASPHD2 (T-17): sc-86076. Western blot analysis of ASPHD2 expression in non-transfected: sc-117752 (**A**) and human ASPHD2 transfected: sc-115022 (**B**) 293T whole cell lysates.




ASPHD2 (T-17): sc-86076. Western blot analysis of ASPHD2 expression in MCF7 (**A**) and HeLa (**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.

## 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.