

APEH (m): 293T Lysate: sc-118467

BACKGROUND

APEH (Acyl-peptide hydrolase), also known as APH, OPH or ACPH, is a 732 amino acid cytoplasmic protein that exists as a homotetramer and functions to catalyze the hydrolysis of N-terminal acetylated amino acids from small acetylated peptides. Once hydrolyzed from the target peptide, the acetyl amino acid is further processed by an aminoacylase to produce acetate and a free amino acid. The gene encoding human APEH maps to a region on chromosome 3 that is deleted in various types of cancers, including renal cell carcinoma and small cell lung carcinoma, suggesting that APEH may be involved in tumor transformation events.

REFERENCES

1. Naylor, S.L., et al. 1989. The DNF15S2 locus at 3p21 is transcribed in normal lung and small cell lung cancer. *Genomics* 4: 355-361.
2. Erlandsson, R., et al. 1990. A gene near the D3F15S2 site on 3p is expressed in normal human kidney but not or only at a severely reduced level in 11 of 15 primary renal cell carcinomas (RCC). *Oncogene* 5: 1207-1211.
3. Scaloni, A., et al. 1992. Acylpeptide hydrolase: inhibitors and some active site residues of the human enzyme. *J. Biol. Chem.* 267: 3811-3818.
4. Kohno, T., et al. 1993. Deletion mapping of chromosome 3p in human uterine cervical cancer. *Oncogene* 8: 1825-1832.
5. Mitta, M., et al. 1996. The nucleotide sequence of human acylamino acid-releasing enzyme. *DNA Res.* 3: 31-35.
6. Scaloni, A., et al. 1999. Structural investigations on human erythrocyte acylpeptide hydrolase by mass spectrometric procedures. *J. Protein Chem.* 18: 349-360.
7. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 102645. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>

CHROMOSOMAL LOCATION

Genetic locus: Apeh (mouse) mapping to 9 F2.

PRODUCT

APEH (m): 293T Lysate represents a lysate of mouse APEH transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

RESEARCH USE

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

APPLICATIONS

APEH (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive APEH antibodies. Recommended use: 10-20 µl per lane.

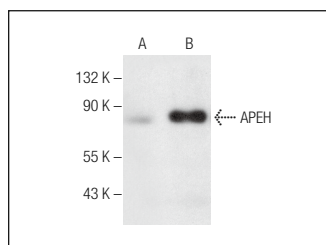
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

APEH (G-6): sc-376612 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse APEH expression in APEH transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



APEH (G-6): sc-376612. Western blot analysis of APEH expression in non-transfected: sc-117752 (A) and mouse APEH transfected: sc-118467 (B) 293T whole cell lysates.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

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