



# SZABO SCANDIC

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Diagnostik & molekulare Diagnostik



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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

# 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

- 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.
- 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.
- Scaloni, A., et al. 1992. Acylpeptide hydrolase: inhibitors and some active site residues of the human enzyme. *J. Biol. Chem.* 267: 3811-3818.
- Kohno, T., et al. 1993. Deletion mapping of chromosome 3p in human uterine cervical cancer. *Oncogene* 8: 1825-1832.
- Mitta, M., et al. 1996. The nucleotide sequence of human acylamino acid-releasing enzyme. *DNA Res.* 3: 31-35.
- Scaloni, A., et al. 1999. Structural investigations on human erythrocyte acylpeptide hydrolase by mass spectrometric procedures. *J. Protein Chem.* 18: 349-360.
- 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.

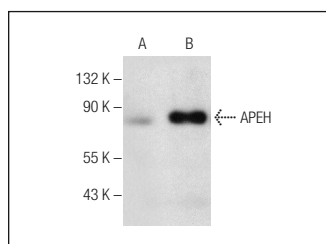
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

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](http://www.scbt.com) for detailed protocols and support products.