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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

www.szabo-scandic.com

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

AASDHPPT (h): 293T Lysate: sc-159704

BACKGROUND

AASDHPPT (aminoadipate-semialdehyde dehydrogenase-phosphopantetheinyl transferase), also known as LYS2, LYS5 or CGI-80, is a 309 amino acid protein that localizes to the cytoplasm and belongs to the P-Pant transferase superfamily. Expressed in testis, liver, kidney, heart, brain, placenta and skeletal muscle, AASDHPPT exists as a monomer that functions to catalyze the phosphopantetheine-dependent post-translational modification of target proteins, effectively transferring a 4'-phosphopantetheine moiety from coenzyme A (CoA) to a serine residue of an acceptor protein. AASDHPPT is subject to DNA damage-dependent phosphorylation, probably by ATM or ATR. The gene encoding AASDHPPT maps to human chromosome 11, which houses over 1,400 genes and comprises nearly 4% of the human genome.

REFERENCES

1. Zhang, Q.H., Ye, M., Wu, X.Y., Ren, S.X., Zhao, M., Zhao, C.J., Fu, G., Shen, Y., Fan, H.Y., Lu, G., Zhong, M., Xu, X.R., Han, Z.G., Zhang, J.W., Tao, J., Huang, Q.H., Zhou, J., Hu, G.X., Gu, J., Chen, S.J. and Chen, Z. 2000. Cloning and functional analysis of cDNAs with open reading frames for 300 previously undefined genes expressed in CD34⁺ hematopoietic stem/progenitor cells. *Genome Res.* 10: 1546-1560.
2. Lai, C.H., Chou, C.Y., Chang, L.Y., Liu, C.S. and Lin, W. 2000. Identification of novel human genes evolutionarily conserved in *Caenorhabditis elegans* by comparative proteomics. *Genome Res.* 10: 703-713.
3. Praphanphoj, V., Sacksteder, K.A., Gould, S.J., Thomas, G.H. and Geraghty, M.T. 2001. Identification of the α -aminoadipic semialdehyde dehydrogenase-phosphopantetheinyl transferase gene, the human ortholog of the yeast LYS5 gene. *Mol. Genet. Metab.* 72: 336-342.
4. Joshi, A.K., Zhang, L., Rangan, V.S. and Smith, S. 2003. Cloning, expression, and characterization of a human 4'-phosphopantetheinyl transferase with broad substrate specificity. *J. Biol. Chem.* 278: 33142-33149.
5. Kasahara, T. and Kato, T. 2003. Nutritional biochemistry: A new redox-cofactor vitamin for mammals. *Nature* 422: 832.
6. Online Mendelian Inheritance in Man, OMIM™. 2003. Johns Hopkins University, Baltimore, MD. MIM Number: 607756. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
7. Gunawardana, C.G., Memari, N. and Diamandis, E.P. 2009. Identifying novel autoantibody signatures in ovarian cancer using high-density protein microarrays. *Clin. Biochem.* 42: 426-429.

CHROMOSOMAL LOCATION

Genetic locus: AASDHPPT (human) mapping to 11q22.3.

PRODUCT

AASDHPPT (h): 293T Lysate represents a lysate of human AASDHPPT transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

RESEARCH USE

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

APPLICATIONS

AASDHPPT (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive AASDHPPT antibodies. Recommended use: 10-20 μ l per lane.

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

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

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