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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) 

pyridoxal phosphatase (h): 293T Lysate: sc-117114

BACKGROUND

Pyridoxal phosphatase (PLPase) is an autoantigen comprising 296 amino acids. PLPase catalyzes the dephosphorylation of pyridoxal 5'-phosphate (the active form of vitamin B6) and exhibits a high level of expression various parts of the central nervous system, especially the brain. PLPase activity is catalyzed by haloacid dehalogenase (HAD), and it is the cofactor of both aromatic L-amino acid decarboxylase and glutamate decarboxylase. Autoantibodies against pyridoxal phosphatase show a strong correlation with certain types of cancer.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PDXP (human) mapping to 22q13.1.

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.

PRODUCT

pyridoxal phosphatase (h): 293T Lysate represents a lysate of human pyridoxal phosphatase transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

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

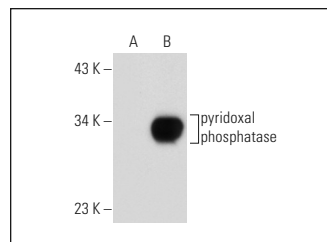
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

pyridoxal phosphatase (D-12): sc-271214 is recommended as a positive control antibody for Western Blot analysis of enhanced human pyridoxal phosphatase expression in pyridoxal phosphatase transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

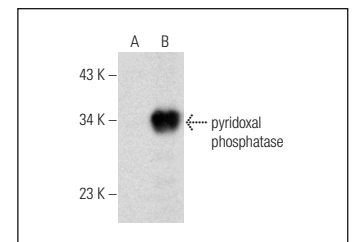
RECOMMENDED SUPPORT REAGENTS

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 Luminal Reagent: sc-2048.

DATA



pyridoxal phosphatase (D-12): sc-271214. Western blot analysis of pyridoxal phosphatase expression in non-transfected: sc-117752 (A) and human pyridoxal phosphatase transfected: sc-117114 (B) 293T whole cell lysates.



pyridoxal phosphatase (A-11): sc-271073. Western blot analysis of pyridoxal phosphatase expression in non-transfected: sc-117752 (A) and human pyridoxal phosphatase transfected: sc-117114 (B) 293T whole cell lysates.

RESEARCH USE

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

PROTOCOLS

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