

DABP (h): 293 Lysate: sc-112971

BACKGROUND

DABP (D-boxBP, D site-binding protein, albumin D-element-binding protein, TAXREB302) is a 325 amino acid protein that belongs to the bZIP family (PAR subfamily) and contains one bZIP domain. It functions as a transcriptional activator that recognizes and binds to the promoter sequence 5'-RTTAYGTAAY-3' found in the promoter region of genes such as albumin, CYP2A4 and CYP2A5. It is not essential for circadian rhythm generation, however, it does help modulate important clock output genes. DABP may be a direct target for regulation by the circadian pacemaker component, Clock. Mice deficient for bZip PAR gene products (such as DABP, EPAS-1 and TEF) are highly susceptible to generalized spontaneous and audiogenic epilepsies. This is likely because bZip PAR targets the gene that encodes pyridoxal kinase. This kinase converts vitamin B6 derivatives into pyridoxal phosphate (PLP), a coenzyme for amino acid and neurotransmitter metabolism.

REFERENCES

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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.

CHROMOSOMAL LOCATION

Genetic locus: DBP (human) mapping to 19q13.33.

PRODUCT

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

APPLICATIONS

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

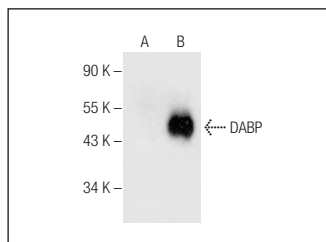
Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-transfected 293 cells.

DABP (H-6): sc-390146 is recommended as a positive control antibody for Western Blot analysis of enhanced human DABP expression in DABP transfected 293 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



DABP (H-6): sc-390146. Western blot analysis of DABP expression in non-transfected: sc-110760 (A) and human DABP transfected: sc-112971 (B) 293 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.