

ALKBH2 (h): 293T Lysate: sc-111420

BACKGROUND

ALKBH2 (alkB, alkylation repair homolog 2), also known as ABH2, is a 261 amino acid protein that localizes to the nucleus and belongs to the ALKB family. Expressed in heart, colon, liver, testis, ovary, prostate and small intestine, ALKBH2 uses iron as a cofactor and functions as a dioxygenase that catalyzes the repair of alkylated DNA and RNA containing 1-methyladenine and 3-methylcytosine. ALKBH2 is functionally activated by ascorbate and requires oxygen and α -ketoglutarate for enzymatic activity. The gene encoding ALKBH2 maps to human chromosome 12q24.11, which encodes over 1,100 genes and comprises approximately 4.5% of the human genome. Chromosome 12 is associated with a variety of diseases and afflictions, including hypochondrogenesis, achondrogenesis, Kniest dysplasia, Noonan syndrome and Trisomy 12p, which causes facial developmental defects and seizure disorders.

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.

PROTOCOLS

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

CHROMOSOMAL LOCATION

Genetic locus: ALKBH2 (human) mapping to 12q24.11.

PRODUCT

ALKBH2 (h): 293T Lysate represents a lysate of human ALKBH2 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

ALKBH2 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive ALKBH2 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.

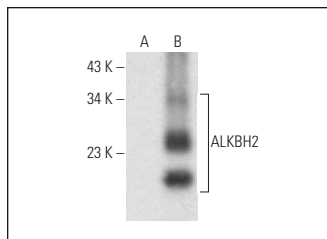
ALKBH2 (C-9): sc-515789 is recommended as a positive control antibody for Western Blot analysis of enhanced human ALKBH2 expression in ALKBH2 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

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



ALKBH2 (C-9): sc-515789. Western blot analysis of ALKBH2 expression in non-transfected: sc-117752 (A) and human ALKBH2 transfected: sc-111420 (B) 293T whole cell lysates.

RESEARCH USE

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