

AEBP2 (D-13): sc-160954

BACKGROUND

Adipocyte enhancer-binding protein 2 (AEBP2), also known as zinc finger protein AEBP2, is an 817 amino acid member of the AEBP2 C₂H₂-type zinc-finger protein family. Localized to the nucleus, AEBP2 acts as a DNA-binding transcriptional repressor of the adipose P2 (aP2) gene. The aP2 gene, which encodes the adipose fatty acid-binding protein, plays a critical role in triglyceride metabolism during adipocyte differentiation. The AE-1 region in the proximal promoter region of the aP2 gene functions as either a positive or negative regulatory element. C/EBP α binds to the AE-1 sequence and functions as a transcriptional activator of aP2, whereas other proteins, such as AEBP2, bind to the region and repress gene expression. AEBP2 contains three C₂H₂-type zinc fingers and it has been shown that not all of the zinc fingers are involved in DNA binding. Three isoforms of AEBP2 exist as a result of alternative splicing events.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: AEBP2 (human) mapping to 12p12.3; Aebp2 (mouse) mapping to 6 G2.

SOURCE

AEBP2 (D-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of AEBP2 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-160954 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-160954 X, 200 μ g/0.1 ml.

APPLICATIONS

AEBP2 (D-13) is recommended for detection of AEBP2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

AEBP2 (D-13) is also recommended for detection of AEBP2 in additional species, including bovine and porcine.

Suitable for use as control antibody for AEBP2 siRNA (h): sc-95702, AEBP2 siRNA (m): sc-140891, AEBP2 shRNA Plasmid (h): sc-95702-SH, AEBP2 shRNA Plasmid (m): sc-140891-SH, AEBP2 shRNA (h) Lentiviral Particles: sc-95702-V and AEBP2 shRNA (m) Lentiviral Particles: sc-140891-V.

AEBP2 (D-13) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight (predicted) of AEBP2 long form: 52 kDa.

Molecular Weight (predicted) of AEBP2 short form: 31 kDa.

Molecular Weight (observed) of AEBP2: 42 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

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

PROTOCOLS

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