

C/EBP ζ (H-24): sc-130709

BACKGROUND

C/EBP ζ (CCAAT/enhancer-binding protein ζ), also known as CBF, CBF2, NOC1 or HSP-CBF is a 1,054 amino acid nuclear protein belonging to the CBF/MAK21 family. C/EBP ζ stimulates transcription from the HSP70 and HSP40 promoters in a NF-Y dependent manner, requiring an intact NF-Y trimer which binds to the DNA. C/EBP ζ is thought to be a potential tumor suppressor gene, and aberrant methylation of the C/EBP ζ promoter may be involved with acute myeloid leukemia. The C/EBP ζ gene is conserved in a wide number of species including chimpanzee, canine, bovine, mouse, rat, chicken, zebrafish and *C. elegans* and is located on human chromosome 2. Chromosome 2, the second largest human chromosome, consists of 237 million bases encoding over 1,400 genes, comprising approximately 8% of the human genome. A number of genetic diseases are linked to genes on chromosome 2.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CEBPZ (human) mapping to 2p22.2.

SOURCE

C/EBP ζ (H-24) is a purified rabbit polyclonal antibody raised against a peptide mapping near the C-terminus of C/EBP ζ of human origin.

PRODUCT

Each vial contains 100 μ g IgG in 1.0 ml PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

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

APPLICATIONS

C/EBP ζ (H-24) is recommended for detection of C/EBP ζ of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for C/EBP ζ siRNA (h): sc-94538, C/EBP ζ shRNA Plasmid (h): sc-94538-SH and C/EBP ζ shRNA (h) Lentiviral Particles: sc-94538-V.

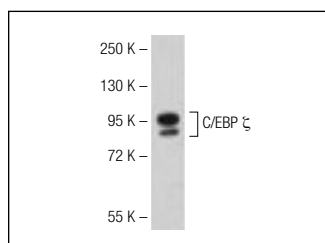
Molecular Weight of C/EBP ζ : 121 kDa.

Positive Controls: H460 whole cell lysate.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

DATA



C/EBP ζ (H-24): sc-130709. Western blot analysis of C/EBP ζ expression in H460 whole cell lysate.

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.