E4BP4 (A-9): sc-74415

**BACKGROUND**

E4BP4, also known as NFIL3, functions as a transcriptional repressor and is a member of the basic leucine zipper (bZIP) transcription factor family. E4BP4 binds with high specificity to the E4 ATF, which is a DNA sequence traditionally targeted by the ATF/CREB family of transcription factors. A 65 amino acid segment located in the carboxy-terminus of E4BP4 interacts specifically with the TBP binding protein Dr1. In the suprachiasmatic nucleus, circadian center and liver, E4BP4 competes with PAR proteins for DNA binding via a reciprocating mechanism. The phase expression of E4BP4 correlates with the circadian mechanism.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: NFIL3 (human) mapping to 9q22.31; Nfil3 (mouse) mapping to chromosome 9.

**SOURCE**

E4BP4 (A-9) is a mouse monoclonal antibody raised against amino acids 163-462 mapping at the C-terminus of E4BP4 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG, kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-74415 X, 200 µg/0.1 ml.

E4BP4 (A-9) is available conjugated to agarose (sc-74415 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-74415 HRP), 200 µg/ml, for WB, IHC/P and ELISA; to either phycoerythrin (sc-74415 PE), fluorescein (sc-74415 FITC), Alexa Fluor® 488 (sc-74415 AF488), Alexa Fluor® 546 (sc-74415 AF546), Alexa Fluor® 594 (sc-74415 AF594) or Alexa Fluor® 647 (sc-74415 AF647), 200 µg/ml, for WB (RGB), IF, IHC/P and FCM; and to either Alexa Fluor® 680 (sc-74415 AF680) or Alexa Fluor® 790 (sc-74415 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**STORAGE**

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

**APPLICATIONS**

E4BP4 (A-9) is recommended for detection of E4BP4 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation (1-2 µg per 100-500 µg of total protein (1 ml of cell lysate), 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).


E4BP4 (A-9) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of E4BP4: 60 kDa.

Positive Controls: E4BP4 (h): 293 Lysate: sc-110510, Ramos cell lysate: sc-2216 or HeLa whole cell lysate: sc-2200.

**DATA**


**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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