

EFP (H-300): sc-22832

BACKGROUND

EFP (estrogen-responsive finger protein) is a transcription factor, the content of which is regulated by estrogen. It has been identified as a member of the RING finger family, a family of proteins containing a Zn²⁺ binding domain designated the C3HC4 or RING finger. EFP also contains two B box domains and a coiled-coil region (a transactivation domain), which are characteristic of a subgroup of the RING finger family. Estrogen regulates the growth, differentiation and function of target cells in a variety of tissues; however, few genes have been shown to be directly regulated by estrogen. It has been speculated that EFP may mediate estrogen activity in a signaling cascade in which estrogen-ER binding to the estrogen responsive element (ERE) downstream of the EFP gene upregulates EFP gene expression. The EFP gene product may then activate transcription of secondary estrogen responsive genes. Additional studies indicate that the EFP promoter may be regulated by multiple elements and their interacting factors.

CHROMOSOMAL LOCATION

Genetic locus: TRIM25 (human) mapping to 17q22.3; Trim25 (mouse) mapping to 11 C.

SOURCE

EFP (H-300) is a rabbit polyclonal antibody raised against amino acids 331-630 mapping at the C-terminus of EFP of human origin.

PRODUCT

Each vial contains 200 µg IgG 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-22832 X, 200 µg/0.1 ml.

APPLICATIONS

EFP (H-300) is recommended for detection of EFP of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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).

Suitable for use as control antibody for EFP siRNA (h): sc-37825, EFP siRNA (m): sc-37826, EFP shRNA Plasmid (h): sc-37825-SH, EFP shRNA Plasmid (m): sc-37826-SH, EFP shRNA (h) Lentiviral Particles: sc-37825-V and EFP shRNA (m) Lentiviral Particles: sc-37826-V.

EFP (H-300) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of EFP: 70 kDa.

Positive Controls: EFP (h2): 293T Lysate: sc-115553, EFP (m2): 293T Lysate: sc-125286 or C32 nuclear extract: sc-2136.

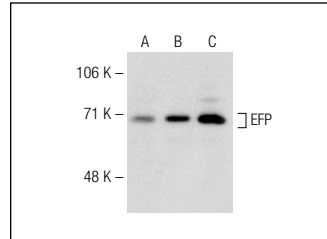
RESEARCH USE

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

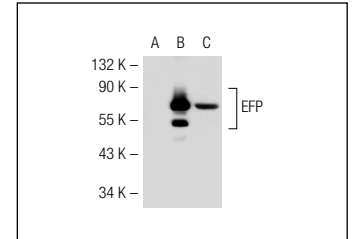
STORAGE

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

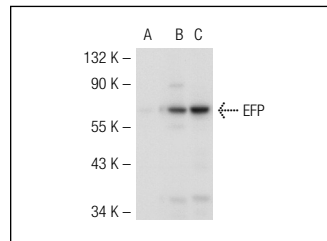
DATA



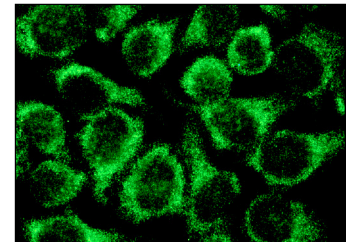
EFP (H-300): sc-22832. Western blot analysis of EFP expression in HeLa (A), C32 (B) and MCF7 (C) nuclear extracts.



EFP (H-300): sc-22832. Western blot analysis of EFP expression in non-transfected 293T: sc-117752 (A), human EFP transfected 293T: sc-115553 (B) and HeLa (C) whole cell lysates.



EFP (H-300): sc-22832. Western blot analysis of EFP expression in non-transfected: sc-117752 (A) and mouse EFP transfected: sc-125286 (B) 293T whole cell lysates and HeLa nuclear extract (C).



EFP (H-300): sc-22832. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic localization.

SELECT PRODUCT CITATIONS

- Hu, W., et al. 2007. A single nucleotide polymorphism in the MDM2 gene disrupts the oscillation of p53 and MDM2 levels in cells. *Cancer Res.* 67: 2757-2765.

PROTOCOLS

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



Try **EFP (E-4): sc-166926** or **EFP (D-8): sc-398817**, our highly recommended monoclonal alternatives to EFP (H-300).