EBP1 (C-11): sc-393114

**BACKGROUND**

EBP1 (ErbB3-binding protein 1), also known as PA2G4 (proliferation-associated 2G4), p38-2G4 or HG4-1, is a member of the peptidase M24C family and functions as an RNA-binding protein involved in cellular proliferation and differentiation processes. It is expressed in a variety of cell lines, including a wide range of tumor cell lines, and localizes to the cytoplasm. Upon treatment with neuregulin-1 (heregulin), EBP1 translocates to the nucleus. EBP1 is a component of pre-ribosomal ribonucleoprotein complexes, participating in ribosome assembly and regulating the later steps of rRNA processing. In addition, EBP1 interacts with ErbB-3 and may function as a modulator of the ErbB-3-mediated signal transduction pathway by regulating the effects of neuregulin-1 (heregulin). EBP1 also associates with histone deacetylases (HDACs), functioning as a transcriptional co-repressor of cell cycle regulatory genes.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: PA2G4 (human) mapping to 12q13.2; Pa2g4 (mouse) mapping to 10 D3.

**SOURCE**

EBP1 (C-11) is a mouse monoclonal antibody raised against amino acids 1-300 mapping at the N-terminus of EBP1 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG1, kappa light chain in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

EBP1 (C-11) is available conjugated to agarose (sc-393114 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-393114 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-393114 PE), fluorescein (sc-393114 FITC), Alexa Fluor® 488 (sc-393114 AF488), Alexa Fluor® 546 (sc-393114 AF546), Alexa Fluor® 594 (sc-393114 AF594) or Alexa Fluor® 647 (sc-393114 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-393114 AF680) or Alexa Fluor® 790 (sc-393114 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA.

**APPLICATIONS**

EBP1 (C-11) is recommended for detection of EBP1 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

EBP1 (C-11) is also recommended for detection of EBP1 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for EBP1 siRNA (h): sc-77220, EBP1 siRNA (m): sc-77221, EBP1 shRNA Plasmid (h): sc-77220-SH, EBP1 shRNA Plasmid (m): sc-77221-SH, EBP1 shRNA (h) Lentiviral Particles: sc-77220-V and EBP1 shRNA (m) Lentiviral Particles: sc-77221-V.

Molecular Weight of EBP1: 47 kDa.

Positive Controls: A549 cell lysate: sc-2413, MCF7 whole cell lysate: sc-2206 or Sol8 cell lysate: sc-2249.

**DATA**

**SELECT PRODUCT CITATIONS**


**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.