10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

EBP1 Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5271

Specification

EBP1 Antibody (Center) - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	Q9UQ80
Other Accession	P50580
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**H=44;M=44 KDa**
Isotype	**Rabbit IgG**
Antigen Source	**HUMAN**

EBP1 Antibody (Center) - Additional Information

Gene ID 5036

Antigen Region
228-255

Other Names
PA2G4; EBP1; Proliferation-associated protein 2G4; Cell cycle protein p38-2G4 homolog; ErbB3-binding protein 1

Dilution
WB~~ 1:1000
IHC-P~~1:50~100
FC~~1:10~50

Target/Specificity
This EBP1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 228-255 amino acids from the Central region of human EBP1.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
EBP1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

EBP1 Antibody (Center) - Protein Information

Name PA2G4

Synonyms EBP1

Function
May play a role in a ERBB3-regulated signal transduction pathway. Seems be involved in growth regulation. Acts a corepressor of the androgen receptor (AR) and is regulated by the ERBB3 ligand neuregulin-1/heregulin (HRG). Inhibits transcription of some E2F1- regulated promoters, probably by recruiting histone acetylase (HAT) activity. Binds RNA. Associates with 28S, 18S and 5.8S mature rRNAs, several rRNA precursors and probably U3 small nucleolar RNA. May be involved in regulation of intermediate and late steps of rRNA processing. May be involved in ribosome assembly. Mediates cap- independent translation of specific viral IRESs (internal ribosomal entry site) (By similarity). Regulates cell proliferation, differentiation, and survival. Isoform 1 suppresses apoptosis whereas isoform 2 promotes cell differentiation (By similarity).

Cellular Location
[Isoform 1]: Cytoplasm. Nucleus, nucleolus Note=Translocates to the nucleus upon treatment with HRG Phosphorylation at Ser-361 by PKC/PRKCD regulates its nucleolar localization.

Tissue Location
Isoform 2 is undetectable whereas isoform 1 is strongly expressed in cancer cells (at protein level). Isoform 1 and isoform 2 are widely expressed, including heart, brain, lung, pancreas, skeletal muscle, kidney, placenta and liver

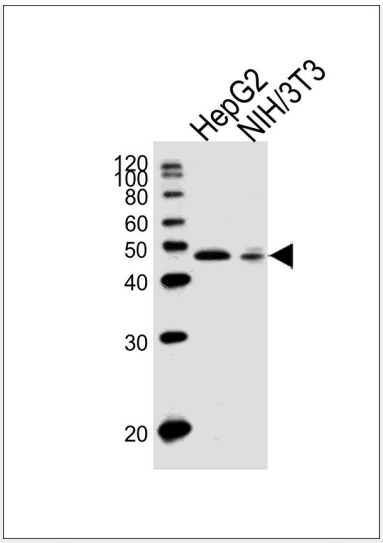
EBP1 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

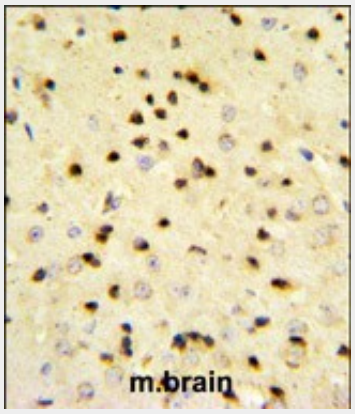
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

EBP1 Antibody (Center) - Images

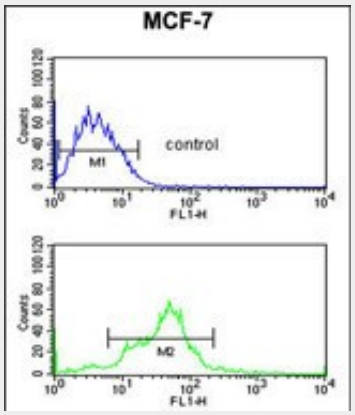
10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



Western blot analysis of lysates from HepG2,mouse NIH/3T3 cell line (from left to right), using EBP1 Antibody (Center)(Cat. #AW5271). AW5271 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.



EBP1 Antibody (Center) (Cat. #AW5271) IHC analysis in formalin fixed and paraffin embedded mouse brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the EBP1 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



EBP1 Antibody (Center) (Cat. #AW5271) flow cytometric analysis of MCF-7 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

EBP1 Antibody (Center) - Background

PA2G4 is an RNA-binding protein that is involved in growth regulation. This protein is present in pre-ribosomal ribonucleoprotein complexes and may be involved in ribosome assembly and the regulation of intermediate and late steps of rRNA processing. This protein can interact with the cytoplasmic domain of the ErbB3 receptor and may contribute to transducing growth regulatory signals. This protein is also a transcriptional co-repressor of androgen receptor-regulated genes and other cell cycle regulatory genes through its interactions with histone deacetylases. This protein has been implicated in growth inhibition and the induction of differentiation of human cancer cells.

EBP1 Antibody (Center) - References

Zhang,Y., Mol. Cancer Ther. 7 (10), 3176-3186 (2008)
Zhang,Y., Cancer Lett. 265 (2), 298-306 (2008)
Okada,M., J. Biol. Chem. 282 (50), 36744-36754 (2007)