

**EBP1 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP2848a****Specification**

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**EBP1 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [Q9UQ80](#)**EBP1 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 5036**Other Names**

Proliferation-associated protein 2G4, Cell cycle protein p38-2G4 homolog, hG4-1, ErbB3-binding protein 1, PA2G4, EBP1

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP2848a](/products/AP2848a) was selected from the Center region of human EBP1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**EBP1 Antibody (Center) Blocking Peptide - 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) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**EBP1 Antibody (Center) Blocking Peptide - Images****EBP1 Antibody (Center) Blocking Peptide - 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) Blocking Peptide - 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)