10320 Camino Santa Fe, Suite G
San Diego, CA 92121
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Anti-EBP1 Picoband Antibody

Catalog # ABO10259

Specification

Anti-EBP1 Picoband Antibody - Product Information

Application	**WB, IHC**
Primary Accession	Q9UQ80
Host	**Rabbit**
Reactivity	**Human, Mouse, Rat**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Proliferation-associated protein 2G4(PA2G4) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-EBP1 Picoband Antibody - 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

Calculated MW
43787 MW KDa

Application Details
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Mouse, Rat, Human, By Heat

Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Subcellular Localization
Isoform 1: Cytoplasm . Nucleus, nucleolus . Tranlocates to the nucleus upon treatment with HRG. Phosphorylation at Ser-361 by PKC/PRKCD regulates its nucleolar localization. .

Tissue Specificity
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. .

Protein Name
Proliferation-associated protein 2G4

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of human EBP1 (138-178aa RKADVIKAAHLCAEAALRLVKPGNQNTQVTEAWNKVAHSFN), identical to the related mouse and rat sequences.

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins

Storage	**At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.**

Anti-EBP1 Picoband Antibody - 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

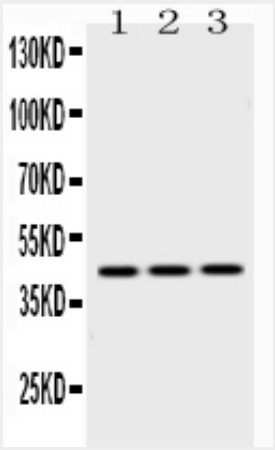
Anti-EBP1 Picoband Antibody - Protocols

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

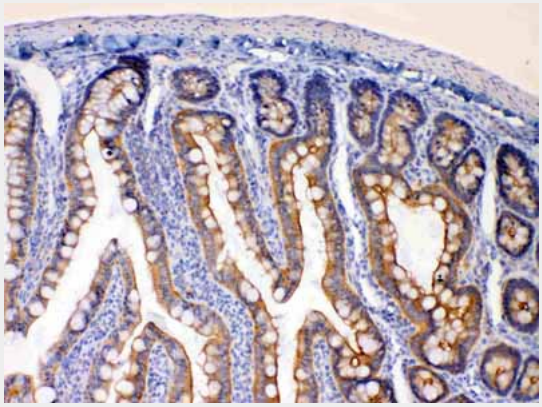
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

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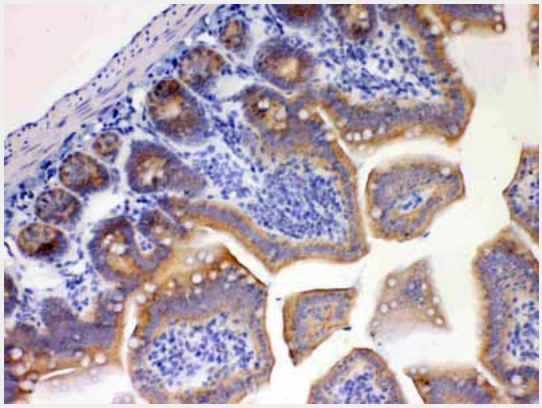
Anti-EBP1 Picoband Antibody - Images



Western blot analysis of EBP1 expression in rat liver extract (lane 1), NIH3T3 whole cell lysates (lane 2) and HEPG2 whole cell lysates (lane 3). EBP1 at 43KD was detected using rabbit anti- EBP1 Antigen Affinity purified polyclonal antibody (Catalog # ABO10259) at 0.5 Î¼g/mL. The blot was developed using chemiluminescence (ECL) method .

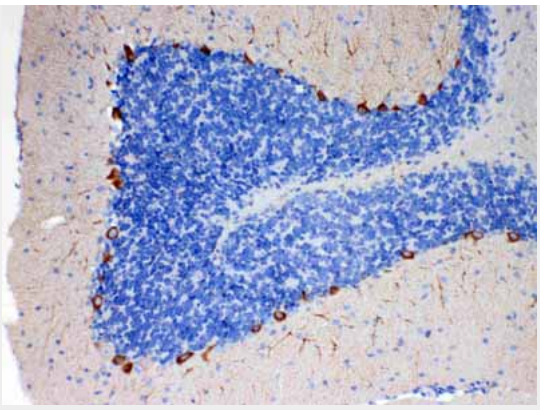


EBP1 was detected in paraffin-embedded sections of rat intestine tissues using rabbit anti- EBP1 Antigen Affinity purified polyclonal antibody (Catalog # ABO10259) at 1 Î¼g/mL. The immunohistochemical section was developed using SABC method .



EBP1 was detected in paraffin-embedded sections of mouse intestine tissues using rabbit anti-EBP1 Antigen Affinity purified polyclonal antibody (Catalog # ABO10259) at 1 Î¼g/mL. The immunohistochemical section was developed using SABC method .

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EBP1 was detected in paraffin-embedded sections of mouse brain tissues using rabbit anti- EBP1 Antigen Affinity purified polyclonal antibody (Catalog # ABO10259) at 1 Î¼g/mL. The immunohistochemical section was developed using SABC method .

Anti-EBP1 Picoband Antibody - Background

Proliferation-associated protein 2G4 (PA2G4), also known as ErbB3-binding protein 1 (EBP1), is a protein that in humans is encoded by the PA2G4 gene. This gene encodes 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 corepressor of androgen receptor-regulated genes and other cell cycle regulatory genes through its interactions with histone deacetylases.