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KD-Validated Anti-Proliferation-Associated 2G4 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1615

Product Information

Application	WB, FC, ICC
Primary Accession	Q9UQ80
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	24GB580
Calculated MW	43787
Gene Name	PA2G4
Aliases	Proliferation-Associated 2G4; EBP1; IRES-Specific Cellular Transacting Factor 45; Proliferation-Associated Protein 2G4; Proliferation-Associated 2G4, 38kDa; Proliferation-Associated 2G4, 38kD; Cell Cycle Protein P38-2G4 Homolog; ErbB-3 Receptor Binding Protein; ErbB3-Binding Protein 1; ITAF45; HG4-1; ErbB3-Binding Protein Ebp1; ErbB-3 Binding Protein 1; P38-2G4
Immunogen	A synthesized peptide derived from human EBP1 / PA2G4

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

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