

ARG57170
anti-EBP1 antibody [5E7]Package: 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [5E7] recognizes EBP1
Tested Reactivity	Hu
Tested Application	FACS, WB
Host	Mouse
Clonality	Monoclonal
Clone	5E7
Isotype	IgG1, kappa
Target Name	EBP1
Species	Human
Immunogen	Recombinant fragment around aa. 1-394 of Human EBP1
Conjugation	Un-conjugated
Alternate Names	HG4-1; p38-2G4; Proliferation-associated protein 2G4; EBP1; ErbB3-binding protein 1; hG4-1; Cell cycle protein p38-2G4 homolog

Application Instructions

Application table	Application	Dilution
	FACS	Assay-dependent
	WB	Assay-dependent

Application Note * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

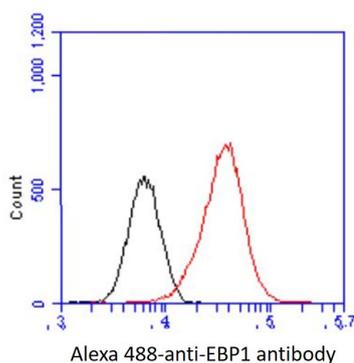
Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 10% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	10% Glycerol
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformatics

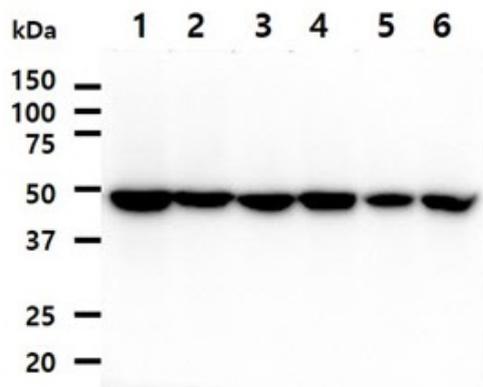
Database links	GeneID: 5036 Human Swiss-port # Q9UQ80 Human
Gene Symbol	PA2G4
Gene Full Name	proliferation-associated 2G4, 38kDa
Background	This gene encodes an RNA-binding protein that is involved in growth regulation. This protein is present in pre-ribosomal ribonucleoprotein complexes and may be involved 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 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. Six pseudogenes, located on chromosomes 3, 6, 9, 18, 20 and X, have been identified. [provided by RefSeq, Jul 2008]
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/hereregulin (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). [UniProt]
Calculated Mw	44 kDa
PTM	Phosphorylated on serine and threonine residues. Phosphorylation is enhanced by HRG treatment. Basal phosphorylation is PKC-dependent and HRG-induced phosphorylation is predominantly PKC-independent. Phosphorylation at Ser-361 by PKC/PRKCD regulates its nucleolar localization. In cancer cells, isoform 2 is polyubiquitinated leading to its proteasomal degradation and phosphorylation by PKC/PRKCD enhances polyubiquitination.

Images



ARG57170 anti-EBP1 antibody [5E7] FACS image

Flow Cytometry: HeLa cell line stained with ARG57170 anti-EBP1 antibody [5E7] at 2-5 μg for 1×10^6 cells (red line). Secondary antibody: Goat anti-Mouse IgG Alexa fluor 488 conjugate. Isotype control antibody: Mouse IgG (black line).



ARG57170 anti-EBP1 antibody [5E7] WB image

Western blot: 40 µg of 1) HeLa, 2) MCF7, 3) A549, 4) 293T, 5) A431, and 6) Jurkat cell lysates stained with ARG57170 anti-EBP1 antibody [5E7] at 1:1000.