

Human PA2G4 antibody

Catalog Number: ATGA0430

PRODUCT INFORMATION

Catalog number

ATGA0430

Clone No.

AT5E7

Product type

Monoclonal Antibody

UnitProt No.

Q9UQ80

NCBI Accession No.

NP_006182

Alternative Names

Proliferation-associated protein 2G4, EBP1, HG4-1, p38-2G4, Proliferation-associated protein 2G4 38kDa, AA672939, Cell cycle protein p38 2G4 homolog, ErbB-3 binding protein 1, ErbB3 binding protein 1 ErbB3-binding protein Ebp1, hG4 1, IRES-specific cellular trans-acting factor 45 kDa, MGC81621, MGC94070, Mpp1.M545, p38 2G4, PA2G4, Plfap, Proliferation associated 2G4, zgc:86732, Proliferation associated 2G4, 38-KD, Proliferation-associated 2G4, 38kDa, Proliferation-associated 2G4, a, Proliferation-associated protein 1 Protein p38-2G4, si:dz150i12.2, wu:fb19b11, wu:ft56d05,

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Human

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human PA2G4 (1-394aa) purified from E. coli

Isotype

IgG1 kappa

Purification Note

By protein-A affinity chromatography

Application

ELISA, WB, FACS, ICC/IF

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Usage

The antibody has been tested by ELISA, Western blot analysis, Flow cytometry and ICC/IF to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

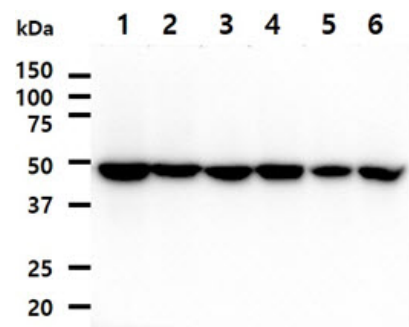
PA2G4 may play a role in a ERBB3-regulated signal transduction pathway and seems to be involved in growth regulation. This protein acts as a corepressor of the androgen receptor (AR) and is regulated by the ERBB3 ligand neuregulin-1/herregulin (HRG). Also, this protein inhibits transcription of some E2F1-regulated promoters, probably by recruiting histone acetylase (HAT) activity, and binds RNA. The protein is associated with 28S, 18S and 5.8S mature rRNAs, several rRNA precursors and probably U3 small nucleolar RNA, that may be involved in regulation of intermediate and late steps of rRNA processing, and may be involved in ribosome assembly. The protein mediates cap-independent translation of specific viral IRESs (internal ribosomal entry site) (By similarity), and regulates cell proliferation, differentiation, and survival. Isoform 1 suppresses apoptosis whereas isoform 2 promotes cell differentiation (By similarity).

General References

Wong CC., et al. (2011) *Blood*. 18: 4305-12.
Steiniger SC., et al. (2008) *Stem Cells*. 26: 3037-46.

DATA

Western blot analysis (WB)



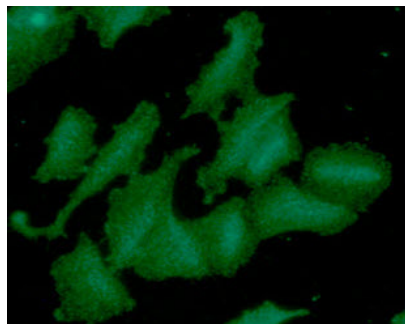
The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human PA2G4 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1. : HeLa cell lysate
Lane 2. : MCF7 cell lysate
Lane 3. : A549 cell lysate
Lane 4. : 293T cell lysate
Lane 5. : A431 cell lysate
Lane 6. : Jurkat cell lysate

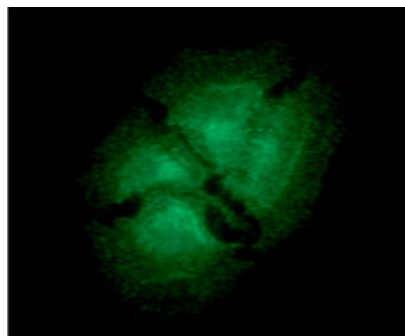
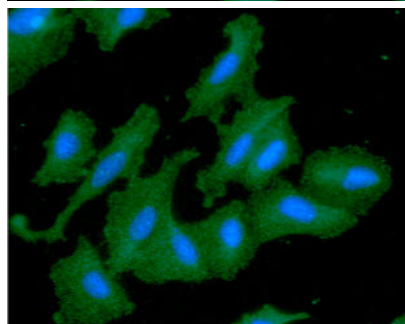
Immunocytochemistry/Immunofluorescence (ICC/IF)

Human PA2G4 antibody

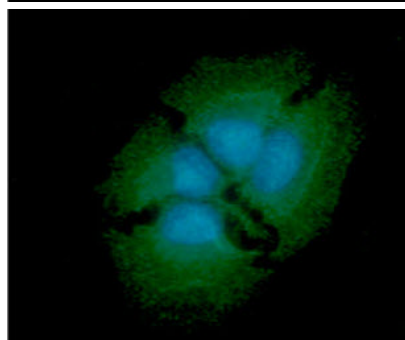
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ICC/IF analysis of PA2G4 in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human PA2G4 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



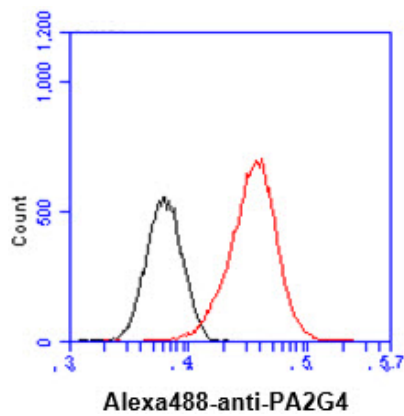
ICC/IF analysis of PA2G4 in A549 cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human PA2G4 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



Flow cytometry (FACS)

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Flow cytometry analysis of PA2G4 in HeLa cell line, staining at 2-5ug for 1x10⁶ cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).