

# Human PA2G4 antibody

Catalog Number: ATGA0430

## PRODUCT INFORMATION

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**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

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**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

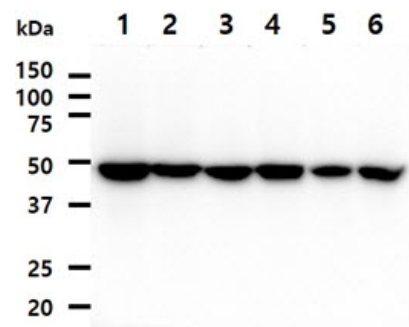
PA2G4 may play a role in a ERBB3-regulated signal transduction pathway and seems to be involved in growth regulation. This protein acts as a corepressor of the androgen receptor (AR) and is regulated by the ERBB3 ligand neuregulin-1/herectin (HRG). Also, this protein inhibits transcription of some E2F1-regulated 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)



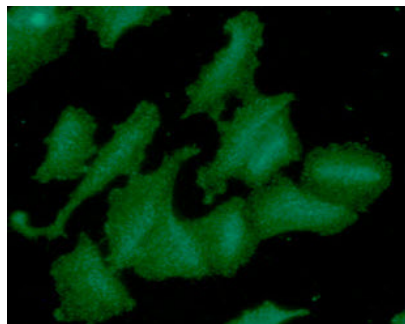
The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human PA2G4 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

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

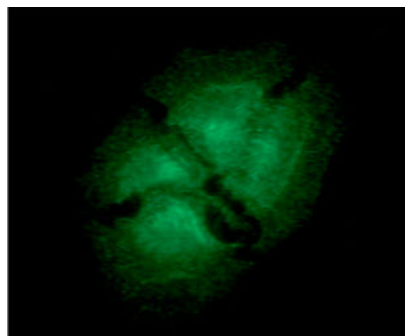
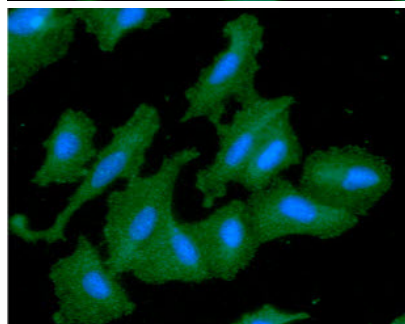
### Immunocytochemistry/Immunofluorescence (ICC/IF)

## Human PA2G4 antibody

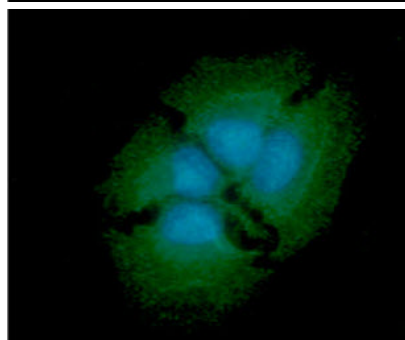
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ICC/IF analysis of PA2G4 in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human PA2G4 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



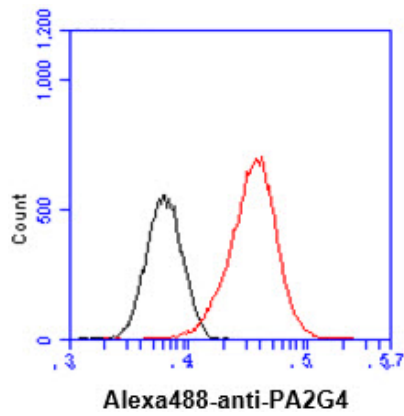
ICC/IF analysis of PA2G4 in A549 cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human PA2G4 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



### Flow cytometry (FACS)

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Flow cytometry analysis of PA2G4 in HeLa cell line, staining at 2-5ug for 1x10<sup>6</sup> cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).