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Human PP2C gamma/PPM1G antibody

Catalog Number: APP0902

PRODUCT INFORMATION

Catalog number

APP0902

Clone No.

k1G6

Product type

Monoclonal Antibody

UnitProt No.

015355

NCBI Accession No.

NP 002698

Alternative Names

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 PPM1G (317-546aa) purified from E. coli

Isotype

IgG1 kappa

Purification Note

By protein-G affinity chromatography

Application

ELISA, WB, ICC/IF, IHC

Usage

The antibody has been tested by ELISA, Western blot, ICC/IF and IHC analysis 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.



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BACKGROUND

Description

PPM1G (Protein phosphatase 1G) is a member of the PP2C family of Serine/threonine protein phosphatases. PP2C family members are known to be negative regulators of cell stress response pathways. The human Ser/Thr phosphatase PPM1G promotes spliceosome assembly. This phosphatase is found to be responsible for the dephosphorylation of Pre-mRNA splicing factors, which is important for the formation of functional spliceosome.

General References

Suh EJ., et al. (2006) FEBS Lett 580 (26):6100-6104. Marc Flajolet., et al. (2003) Proc Natl Acad Sci 100(26):16006-16011.

DATA

Western blot analysis (WB)



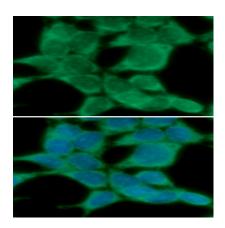
The 293T cell lysate (20ug) was resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human PPM1G antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Immunocytochemistry/Immunofluorescence (ICC/IF)



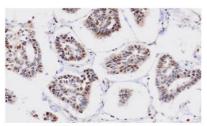
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ICC/IF analysis of PPM1G in 293T cells. The cell was stained with APP0902 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

IHC Comment And Pic



Human breast cancer tissue

Paraffin embedded sections of human breast cancer tissue were incubated with anti-human PPM1G (1:50) for 2 hours at room temperature. Antigen retrieval was performed in 0.1M sodium citrate buffer and detected using Diaminobenzidine (DAB)