# **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.



## BACKGROUND

#### Description

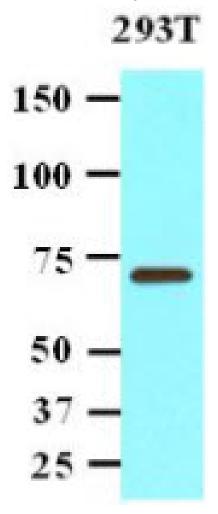
PPM1G (Protein phosphatase 1G) is a member of the PP2C family of Serine/threonine protein phosphatases. PP2C family members are known to be negative regulators of cell stress response pathways. The human Ser/Thr phosphatase PPM1G promotes spliceosome assembly. This phosphatase is found to be responsible 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

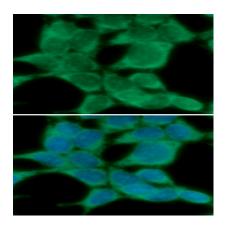
Western blot analysis (WB)



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.

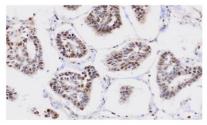
Immunocytochemistry/Immunofluorescence (ICC/IF)

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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).

Immunohistochemistry (IHC)



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)