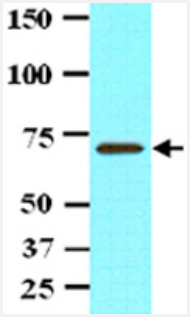
PPM1G monoclonal antibody, clone k1G6

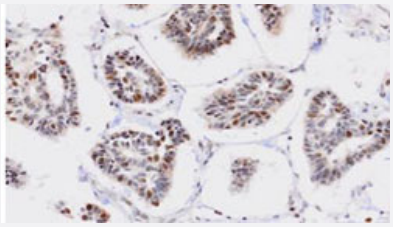
Catalog # MAB2045 Size 100 uL

Applications



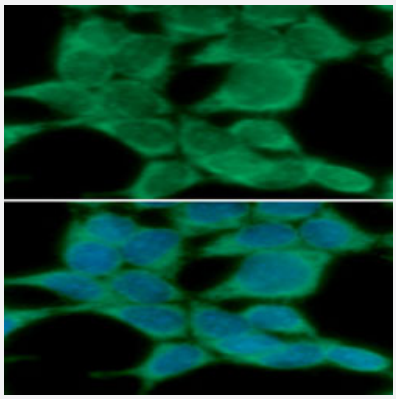
Western Blot (Cell lysate)

Western blot analysis of 293T cell lysate.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemistry of human breast cancer tissue were incubated with PPM1G monoclonal antibody, clone k1G6 (1:50) for 2 hours at room temperature. Antigen retrieval was performed in 0.1 M sodium citrate buffer and detected using Diaminobenzidine (DAB).



Immunofluorescence

Immunofluorescence analysis of 293T cells. The cell was stained with PPM1G monoclonal antibody, clone k1G6 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant PPM1G.

Immunogen	Recombinant protein corresponding to amino acids 317-546 of human PPM1G.
Host	Mouse
Reactivity	Human
Form	Liquid
Purification	Protein G purification
Isotype	IgG1, kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein.
Recommend Usage	ELISA Immunocytochemistry Immunofluorescence Immunohistochemistry Western Blot The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (10% glycerol, 0.02% sodium azide).
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

  Western blot analysis of 293T cell lysate.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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- Immunocytochemistry

- Immunofluorescence

  Immunofluorescence analysis of 293T cells. The cell was stained with PPM1G monoclonal antibody, clone k1G6 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

- Enzyme-linked Immunoabsorbent Assay

Gene Info — PPM1G

Entrez GeneID	5496
Protein Accession#	NP_002698
Gene Name	PPM1G
Gene Alias	MGC1675, MGC2870, PP2CG, PP2CGAMMA, PPP2CG
Gene Description	protein phosphatase 1G (formerly 2C), magnesium-dependent, gamma isoform
Omim ID	605119
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the PP2C family of Ser/Thr protein phosphatases. PP2C family members are known to be negative regulators of cell stress response pathways. This phosphatase is found to be responsible for the dephosphorylation of Pre-mRNA splicing factors, which is important for the formation of functional spliceosome. Studies of a similar gene in mice suggested a role of this phosphatase in regulating cell cycle progression. Alternatively spliced transcript variants encoding the same protein have been described. [provided by RefSeq
Other Designations	OTTHUMP00000123426|PP2C, gamma|protein phosphatase 1C|protein phosphatase 1G|protein phosphatase 2, catalytic subunit, gamma isoform|protein phosphatase 2C gamma isoform|protein phosphatase magnesium-dependent 1 gamma

Publication Reference

- PP2Cgamma-mediated S-phase accumulation induced by the proteasome-dependent degradation of p21(WAF1/CIP1).

  Suh EJ, Kim TY, Kim SH.

  FEBS Letters 2006 Nov; 580(26):6100.

  Application: WB, Human, HEK 293 cells

- Protein phosphatase 2C binds selectively to and dephosphorylates metabotropic glutamate receptor 3.

  Flajolet M, Rakhilin S, Wang H, Starkova N, Nuangchamnong N, Nairn AC, Greengard P.

  PNAS 2003 Dec; 100(26):16006.

Disease

- Alcoholism

- Conduct Disorder