Product Name: PPM1A Mouse Monoclonal Antibody
Catalog #: AMM81143
For research use only.

Summary

Description	Mouse monoclonal Antibody
Host	Mouse
Application	WB,ELISA,FC
Reactivity	Human,Monkey
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Monoclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Purified antibody in PBS with 0.05% sodium azide
Purification	Affinity Purification

Application

Dilution Ratio	WB 1:500-1:2000,ELISA 1:5000-1:20000,FC 1:200-1:400
Molecular Weight	42.4kDa

Antigen Information

Gene Name	PPM1A
Alternative Names	PP2CA; PP2Calpha; PP2C-ALPHA
Gene ID	5494.0
SwissProt ID	P20265
Immunogen	Purified recombinant fragment of human PPM1A (AA: 202-382) expressed in E. Coli.

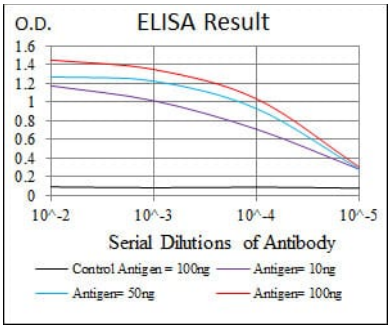
Background

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 dephosphorylates, and negatively regulates the activities of, MAP kinases and MAP kinase kinases. It has been shown to inhibit the activation of p38 and JNK

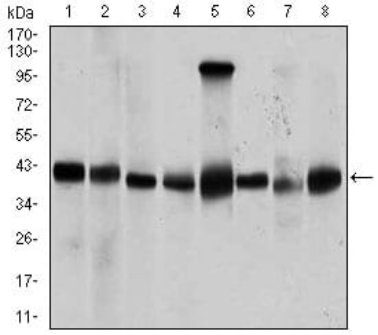
kinase cascades induced by environmental stresses. This phosphatase can also dephosphorylate cyclin-dependent kinases, and thus may be involved in cell cycle control. Overexpression of this phosphatase is reported to activate the expression of the tumor suppressor gene TP53/p53, which leads to G2/M cell cycle arrest and apoptosis. Three alternatively spliced transcript variants encoding distinct isoforms have been described.

Research Area

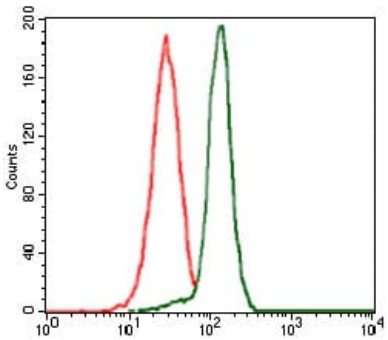
Image Data



Black line: Control Antigen (100 ng); Purple line: Antigen(10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng);



Western blot analysis using PPM1A mouse mAb against Jurkat (1), Jurkat (2), A431 (3), HeLa (4), HEK293 (5), Raji (6), MCF-7 (7), and COS7 (8) cell lysate.



Flow cytometric analysis of HeLa cells using PPM1A mouse mAb (green) and negative control (red).