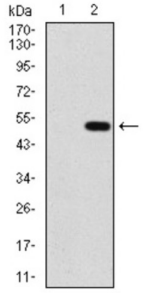
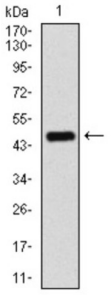
# Protein Phosphatase, Mg2+/Mn2+ Dependent 1A (PPM1A) Antibody

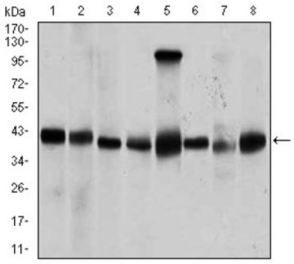
Catalogue No.:abx011791



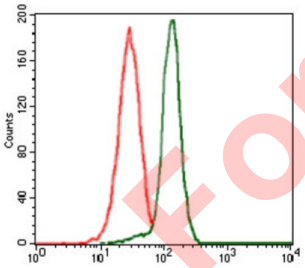

Western blot analysis using PPM1A antibody against human PPM1A recombinant protein. (Expected MW is 45.9 kDa).



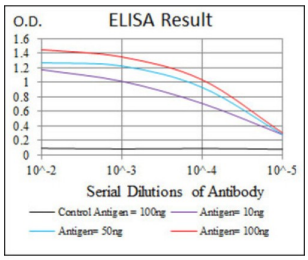

Western blot analysis using PPM1A antibody against HEK293 (1) and PPM1A (AA: 202-382) - hIgGFc transfected HEK293 (2) cell lysate.




Western blot analysis using PPM1A antibody 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 antibody (green) and negative control (red).




Red: Control Antigen (100ng) ; Purple: Antigen (10ng) ; Green: Antigen (50ng) ; Blue: Antigen (100ng).

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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.

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|---|---|
| **Target:** | Protein Phosphatase, Mg2+/Mn2+ Dependent 1A (PPM1A) |
| **Clonality:** | Monoclonal |
| **Reactivity:** | Human, Monkey |
| **Tested Applications:** | ELISA, WB, FCM |
| **Host:** | Mouse |
| **Recommended dilutions:** | ELISA: 1/10000, WB: 1/500 - 1/2000, FCM: 1/200 - 1/400. Optimal dilutions/concentrations should be determined by the end user. |
| **Conjugation:** | Unconjugated |
| **Immunogen:** | Purified recombinant fragment of human PPM1A (AA: 202-382) expressed in E. coli. |
| **Isotype:** | $IgG_1$ |
| **Form:** | Liquid |
| **Purification:** | Purified from ascites by Protein G chromatography. |
| **Storage:** | Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles. |
| **UniProt Primary AC:** | P35813 (UniProt, ExPASy) |
| **GeneID:** | 5494 |
| **Molecular Weight:** | 42.4 kDa |
| **Buffer:** | PBS, containing 0.05% sodium azide. |
| **Concentration:** | 1 mg/ml |
| **Note:** | THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION. |




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