

Product Name: KD-Validated PPM1B Mouse Monoclonal Antibody**Catalog #: KVA00434**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2,500; FC 1:100-1:1,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 52.6kDa

Antigen Information

Gene Name	PPM1B PPM1B; Protein Phosphatase, Mg ²⁺ /Mn ²⁺ Dependent 1B; PP2CB; PPC2BETAX; PP2CBETA; Protein Phosphatase 1B; EC 3.1.3.16; PP2C-Beta; Protein Phosphatase 1B (Formerly 2C),
Alternative Names	Magnesium-Dependent, Beta Isoform; Protein Phosphatase, Mg ²⁺ /Mn ²⁺ Dependent, 1B; Protein Phosphatase 2C, Beta Isoform; Protein Phosphatase 2C-Like Protein; Protein Phosphatase 2C Isoform Beta; PP2C-Beta-X
Gene ID	5495.0
SwissProt ID	O75688
Immunogen	Recombinant protein of human PPM1B

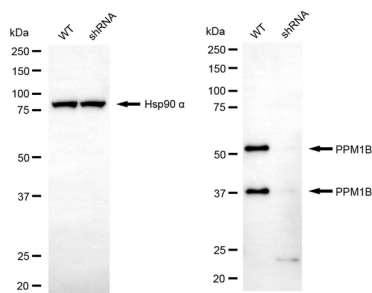
Background

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 has been shown to dephosphorylate cyclin-dependent kinases (CDKs), and thus may be involved in cell cycle control. Overexpression of this phosphatase is reported to cause cell-growth arrest or cell death. Alternative splicing results in multiple transcript variants encoding different isoforms. Additional transcript variants have been described, but currently do not represent full-length sequences. [provided by RefSeq, Jul 2008]

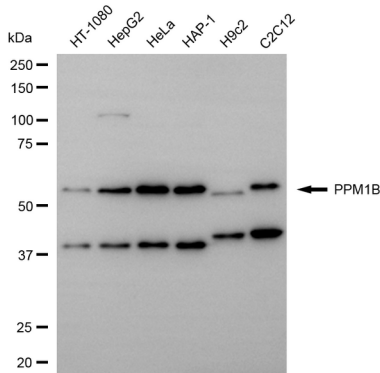
Research Area

Cell Biology

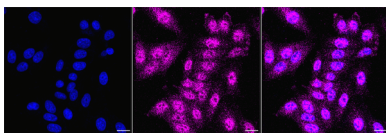
Image Data



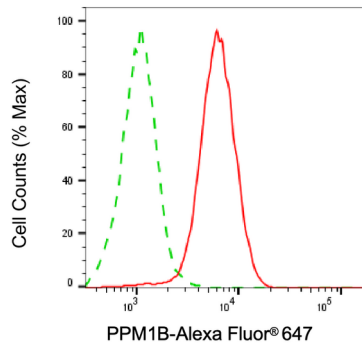
Western blotting analysis using PPM1B antibody (KVA00434). PPM1B expression in wild-type (WT) and PPM1B shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with PPM1B antibody (KVA00434, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using PPM1B antibody (KVA00434). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with PPM1B antibody (KVA00434, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with PPM1B antibody (KVA00434, 1:1,000) . Nuclei were stained blue with DAPI; PPM1B was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar, 20 µm.



Flow cytometric analysis of PPM1B expression in HepG2 cells using PPM1B antibody (KVA00434, 1:1,000). Green, isotype control; red, PPM1B.