
Product Name: KD-Validated PPP5C Mouse Monoclonal Antibody**Catalog #: KVA00638**

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 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 56.9kDa

Antigen Information

Gene Name	PPP5C PPP5C; Protein Phosphatase 5 Catalytic Subunit; PP5; PPP5; Serine/Threonine-Protein
Alternative Names	Phosphatase 5; Protein Phosphatase T; EC 3.1.3.16; PP-T; PPT; Protein Phosphatase 5, Catalytic Subunit
Gene ID	5536.0
SwissProt ID	P53041
Immunogen	Recombinant protein of human PPP5C

Background

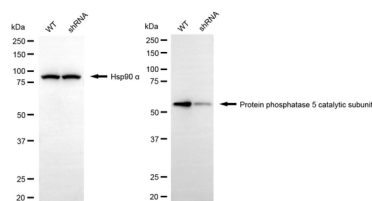
This gene encodes a serine/threonine phosphatase which is a member of the protein phosphatase catalytic subunit family. Proteins in this family participate in pathways regulated by reversible phosphorylation at serine and threonine residues; many

of these pathways are involved in the regulation of cell growth and differentiation. The product of this gene has been shown to participate in signaling pathways in response to hormones or cellular stress, and elevated levels of this protein may be associated with breast cancer development. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2011]

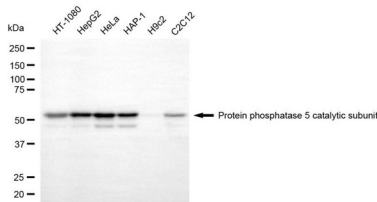
Research Area

Epigenetics and Nuclear Signaling

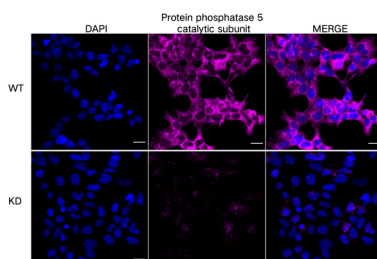
Image Data



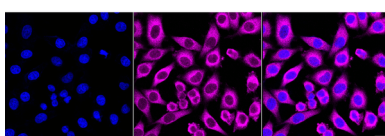
Western blotting analysis using protein phosphatase 5 catalytic subunit antibody (KVA00638). Protein phosphatase 5 catalytic subunit expression in wild type (WT) and protein phosphatase 5 catalytic subunit (PPP5C) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with protein phosphatase 5 catalytic subunit antibody (KVA00638, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



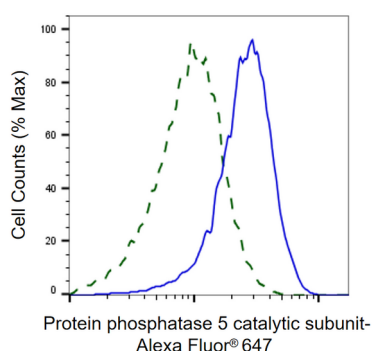
Western blotting analysis using protein phosphatase 5 catalytic subunit antibody (KVA00638). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with protein phosphatase 5 catalytic subunit antibody (KVA00638, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



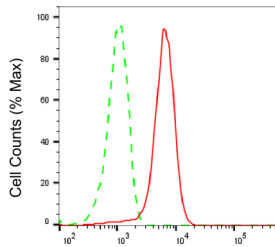
Immunocytochemical staining of HeLa cells using Protein phosphatase 5 catalytic subunit antibody (KVA00638, 1:1,000), Top panel: wild-type (WT); Bottom panel: Protein phosphatase 5 catalytic subunit shRNA knockdown (KD). Nuclei were stained blue with DAPI; Protein phosphatase 5 catalytic subunit was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



Immunocytochemical staining of HepG2 cells with Protein phosphatase 5 catalytic subunit antibody (KVA00638, 1:1,000). Nuclei were stained blue with DAPI; Protein phosphatase 5 catalytic subunit was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Medium. Scale bar, 20 µm.



Validation of Protein phosphatase 5 catalytic subunit knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Protein phosphatase 5 catalytic subunit antibody (KVA00638, 1:2,000) and analyzed using BD flow cytometer.



Protein phosphatase 5 catalytic subunit-Alexa Fluor® 647

Flow cytometric analysis of Protein phosphatase 5 catalytic subunit expression in HepG2 cells using Protein phosphatase 5 catalytic subunit antibody (KVA00638, 1:2,000). Green, isotype control; red, Protein phosphatase 5 catalytic subunit.