

Product Name: KD-Validated PPP4C Mouse Monoclonal Antibody**Catalog #: KVA00505**

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 IgG2b
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 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 35.1kDa

Antigen Information

Gene Name	PPP4C PPP4C; Protein Phosphatase 4 Catalytic Subunit; PPX; PP4; Serine/Threonine-Protein Phosphatase 4 Catalytic Subunit; Protein Phosphatase 4 (Formerly X), Catalytic Subunit;
Alternative Names	Protein Phosphatase X, Catalytic Subunit; EC 3.1.3.16; PP-X; PP4C; PPP4; Epididymis Secretory Sperm Binding Protein; Protein Phosphatase 4, Catalytic Subunit; Protein Phosphatase X; PPH3; Pp4
Gene ID	5531.0
SwissProt ID	P60510
Immunogen	Recombinant protein of human PPP4C

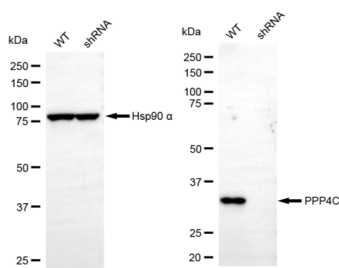
Background

Enables protein serine/threonine phosphatase activity. Involved in regulation of double-strand break repair via homologous recombination. Located in several cellular components, including chromatin; cytosol; and nucleoplasm. Part of protein phosphatase 4 complex. [provided by Alliance of Genome Resources, Jul 2025]

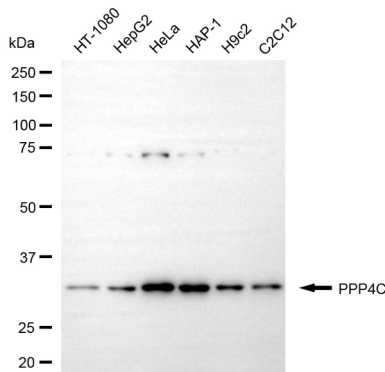
Research Area

Signal Transduction

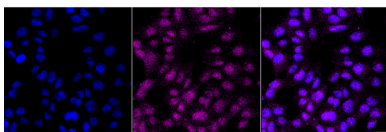
Image Data



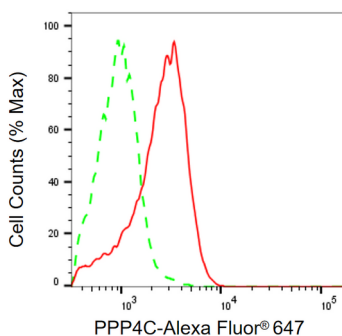
Western blotting analysis using PPP4C antibody (KVA00505). PPP4C expression in wild-type (WT) and PPP4C shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with PPP4C antibody (KVA00505, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using PPP4C antibody (KVA00505). Total cell lysates (20 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with PPP4C antibody (KVA00505, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Immunocytochemical staining of HAP-1 cells with PPP4C antibody (KVA00505, 1:1,000). Nuclei were stained blue with DAPI; PPP4C 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 PPP4C expression in HAP-1 cells using PPP4C antibody (KVA00505, 1:2,000). Green, isotype control; red, PPP4C.