

Anti-PPP1A Antibody (1C11-C10-H5-E9)

Mouse Monoclonal Antibody

Catalog # ABV12059

Product Information

Application	WB, IHC, IF
Primary Accession	P53095
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Names	1C11-C10-H5-E9
Calculated MW	47828

Additional Information

Gene ID	852679
Application & Usage	WB: MCF7, K562, HeLa, HEPG2 and Jurkat whole cell lysates; IF: HeLa cells; IHC: human breast cancer tissue
Other Names	Serine/threonine-protein phosphatase PP1-alpha catalytic subunit, PP-1A, PPP1CA, PPP1A
Target/Specificity	PPP1A
Antibody Form	Liquid
Appearance	Colorless liquid
Formulation	In buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol
Handling	The antibody solution should be gently mixed before use.
Reconstitution & Storage	-20 °C
Background Descriptions Precautions	Anti-PPP1A Antibody (1C11-C10-H5-E9) is for research use only and not for use in diagnostic or therapeutic procedures.

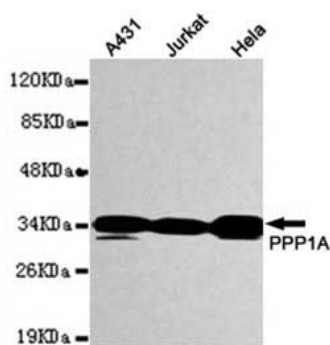
Protein Information

Name	DSD1 {ECO:0000312 SGD:S000003164}
Function	Catalyzes the conversion of D-serine to pyruvate and ammonia (PubMed: 17869212 , PubMed: 17937657). May play a role in D-serine

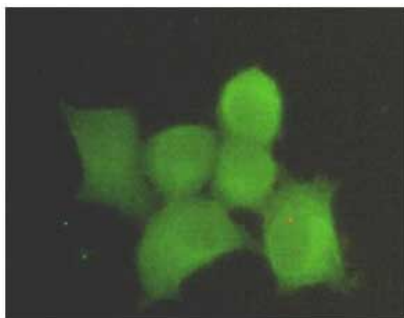
Background

Protein phosphatase that associates with over 200 regulatory proteins to form highly specific holoenzymes which dephosphorylate hundreds of biological targets. Protein phosphatase 1 (PP1) is essential for cell division, and participates in the regulation of glycogen metabolism, muscle contractility and protein synthesis. Involved in regulation of ionic conductances and long-term synaptic plasticity. May play an important role in dephosphorylating substrates such as the postsynaptic density-associated Ca²⁺/calmodulin dependent protein kinase II. Component of the PTW/PP1 phosphatase complex, which plays a role in the control of chromatin structure and cell cycle progression during the transition from mitosis into interphase.

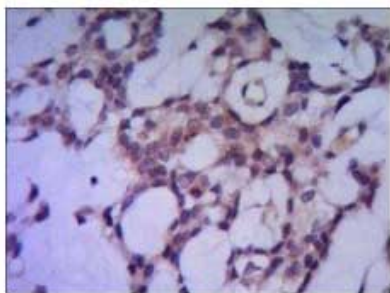
Images



Western blot detection of PPP1A in MCF7, K562, HeLa, HEPG2 and JurKat whole cell lysates using PPP1A mouse mAb



Immunocytochemistry stain of HeLa using PPP1A mouse mAb



IHC of paraffin-embedded human breast cancer using anti-PPP1A mouse mAb diluted 1/500-1/1000.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.