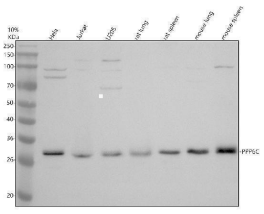
PPP6C Antibody / Protein phosphatase 6 catalytic subunit Antibody (FY13572)

Catalog No.	Formulation	Size
FY13572	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Buffer	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
UniProt	O00743
Applications	Western blot: 0.5-1ug/ml ELISA: 0.1-0.5 ug/ml
Limitations	This PPP6C Antibody / Protein phosphatase 6 catalytic subunit Antibody is supplied exclusively for research use.



PPP6C Antibody by WB in human cell lines and rodent tissues. Western blot analysis using Protein phosphatase 6 catalytic subunit Antibody detects a prominent immunoreactive band near 30 kDa in HeLa (lane 1), Jurkat (lane 2), U2OS (lane 3), rat lung (lane 4), rat spleen (lane 5), mouse lung (lane 6), and mouse spleen (lane 7). The calculated molecular weight is approximately 35 kDa. The observed migration is slightly below the calculated mass. Samples were analyzed under reducing conditions with 30 ug protein per lane using 10% SDS-PAGE, followed by transfer to nitrocellulose. Membranes were blocked with 5% nonfat milk and incubated with primary antibody at 0.5 ug/mL overnight at 4oC. HRP-conjugated secondary antibody and chemiluminescent substrate were used for visualization.

Description

PPP6C Antibody / Protein phosphatase 6 catalytic subunit Antibody detects PPP6C, the catalytic subunit of protein phosphatase 6, a serine/threonine phosphatase belonging to the PPP family of protein phosphatases. Reversible phosphorylation regulates the activity, localization, and interactions of many cellular proteins. PPP6C removes phosphate groups from selected substrates and functions within complexes containing regulatory and scaffold proteins. These associated components influence substrate recognition and the cellular distribution of phosphatase activity, making the

composition of the complex important for understanding PPP6C function.

Protein phosphatase 6 participates in processes associated with cell-cycle progression, mitotic organization, and signaling responses. Studies have connected PP6 complexes with the regulation of Aurora A kinase and aspects of centrosome and spindle function. PPP6C has also been implicated in responses to DNA damage and in selected inflammatory signaling pathways. These activities are context-dependent and should not be interpreted as evidence that PPP6C directly dephosphorylates every protein involved in those pathways. The catalytic subunit acts through partnerships that constrain when and where its activity is expressed. The Protein phosphatase 6 catalytic subunit Antibody designation refers to this same molecular target.

Somatic alterations in PPP6C have been identified in some cancers, including melanoma, prompting interest in how phosphatase dysfunction affects kinase signaling and cellular division. The effects of a particular alteration can depend on residual catalytic activity and the integrity of regulatory complexes. PPP6C differs from the catalytic subunits of protein phosphatases 1 and 2A despite shared enzymatic features. NSJ Bioreagents includes PPP6C among targets involved in phosphorylation-dependent regulation. A PPP6C Antibody provides a way to investigate the biological role of PPP6C and the molecular processes associated with this target.

Explore related research targets in our Signal Transduction Antibodies for Cell Signaling and Regulatory Pathway Research collection.

Application Notes

For best results, determine the optimal working dilution of the PPP6C Antibody / Protein phosphatase 6 catalytic subunit Antibody experimentally.

Immunogen

The PPP6C Antibody was generated using e. coli-derived human PPP6C recombinant protein (amino acids M1-L305).

Storage

Once reconstituted, refrigerate the PPP6C Antibody at 4oC for no longer than one month. For extended storage, freeze aliquots at -20oC for up to six months and avoid repeated freeze-thaw cycles.

Alternate Names

PPP6C antibody, Serine/threonine-protein phosphatase 6 catalytic subunit antibody, protein phosphatase 6 catalytic subunit antibody, PP6C antibody, PPP6 antibody, PPP6C rabbit polyclonal antibody

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