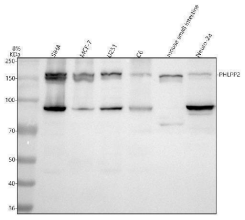
PHLPP2 Antibody / PH domain leucine-rich repeat-containing protein phosphatase 2 Antibody (FY13521)

Catalog No.	Formulation	Size
FY13521	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	Q6ZVD8
Applications	Western blot: 0.5-1ug/ml
Limitations	This PHLPP2 Antibody / PH domain leucine-rich repeat-containing protein phosphatase 2 Antibody is provided for laboratory research use only.



PHLPP2 Antibody by WB in human, rat, and mouse samples. Western blot analysis using PH domain leucine-rich repeat-containing protein phosphatase 2 Antibody shows immunoreactivity near 147 kDa in human SiHa (lane 1), MCF-7 (lane 2), and U251 (lane 3) cells, rat C6 cells (lane 4), mouse small intestine (lane 5), and mouse Neuro-2a cells (lane 6). The principal upper band agrees with the approximately 147 kDa predicted mass of PHLPP2. Each lane contained 30 ug of reduced lysate resolved by 8% SDS-PAGE. The primary antibody was incubated at 0.5 ug/mL overnight at 4oC, followed by HRP-conjugated secondary antibody and chemiluminescent detection.

Description

PHLPP2 Antibody / PH domain leucine-rich repeat-containing protein phosphatase 2 Antibody detects PHLPP2, a serine/threonine protein phosphatase that participates in the control of intracellular kinase signaling. The protein contains a pleckstrin homology domain, leucine-rich repeats, and a catalytic phosphatase region, an arrangement that helps organize its interactions and signaling context. PHLPP2 is known for its ability to dephosphorylate regulatory sites on selected kinases, including components of the AKT signaling network. By reversing activating phosphorylation events, it can influence the strength and duration of signals that govern growth, metabolism, and survival.

AKT signaling integrates inputs from growth factors and other extracellular cues. PHLPP2 contributes to negative

regulation of this pathway, but its effects are not limited to a single substrate or cellular compartment. Substrate selection and biological outcomes depend on protein abundance, localization, and interaction partners. PHLPP2 belongs to the same phosphatase family as PHLPP1, yet the two proteins are not functionally interchangeable in every context. Their differing regulatory relationships help create specificity within kinase signaling networks. The PH domain leucine-rich repeat-containing protein phosphatase 2 Antibody designation reflects the full protein name associated with the PHLPP2 target.

Changes in PHLPP2 expression or activity have been studied in connection with abnormal proliferation and survival signaling. In some settings, reduced phosphatase activity may permit stronger or more persistent kinase activation; in others, the consequences are shaped by additional regulatory pathways. These observations have made PHLPP2 an important component of discussions about signaling balance rather than simply a universal inhibitor of cell growth. NSJ Bioreagents offers the PHLPP2 Antibody for this signaling phosphatase. A PHLPP2 Antibody is relevant to the regulation of kinase phosphorylation, AKT pathway activity, and cellular responses to growth signals.

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

Application Notes

The recommended approach is to establish the optimal working dilution of the PHLPP2 Antibody / PH domain leucine-rich repeat-containing protein phosphatase 2 Antibody through preliminary testing.

Immunogen

The PHLPP2 Antibody was generated using a synthetic peptide corresponding to a sequence at the N-terminus of human PHLPP2.

Storage

Store the reconstituted PHLPP2 Antibody at 4oC for up to one month. For long-term storage, divide into aliquots and keep at -20oC for up to six months. Avoid repeated freeze-thaw cycles.

Alternate Names

PHLPP2 antibody, PH domain leucine-rich repeat-containing protein phosphatase 2 antibody, PH domain and leucine rich repeat protein phosphatase 2 antibody, KIAA0931 antibody, PHLPPL antibody, PH domain leucine-rich repeat-containing protein phosphatase-like antibody, PHLPP-like antibody

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