Datasheet for ABIN1449986

anti-PHLPP2 antibody (C-Term)

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Overview

Quantity:	0.1 mg
Target:	PHLPP2
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PHLPP2 antibody is un-conjugated
Application:	Western Blotting (WB), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	PHLPP2 antibody was raised against a 20 amino acid synthetic peptide near the carboxy terminus of human PHLPP2.
Isotype:	IgG
Purification:	Affinity chromatography purified via peptide column

Target Details

Target:	PHLPP2
Alternative Name:	PHLPP2 (PHLPP2 Products)
Background:	PHLPP2 is a member of the serine/threonine phosphatase family, which are important regulators of Akt serine-threonine kinases (AKT1, AKT2, AKT3) and conventional/novel protein kinase C (PKC) isoforms. PHLPP1 and PHLPP2 have a similar domain structure and have been

Target Details

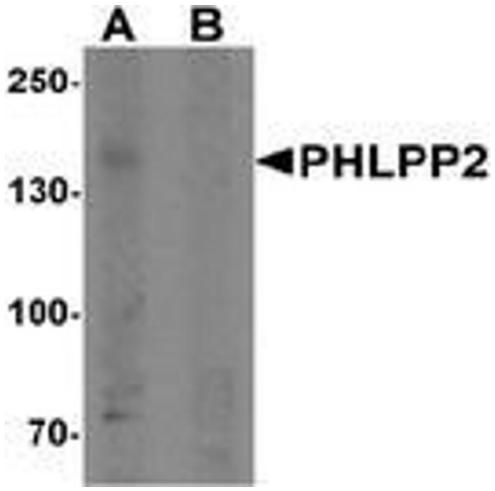
	shown to dephosphorylate and inactivate, distinct Akt isoforms, at one of the two critical phosphorylation sites required for activation: Serine473. PHLPP2 dephosphorylates AKT1 and AKT3, whereas PHLPP1 is specific for AKT2 and AKT3. PHLPP1 promotes apoptosis and may act as a tumor suppressor. PHLPP2 associates with and is inhibited by adenylyl cyclase type 6 (AC6), thereby allowing Akt activation .Synonyms: KIAA0931, PH domain leucine-rich repeat-containing protein phosphatase 2, PH domain leucine-rich repeat-containing protein phosphatase-like, PHLPP-like, PHLPPL
Molecular Weight:	156 kDa
Gene ID:	23035
NCBI Accession:	NP_055835
Pathways:	PI3K-Akt Signaling, Fc-epsilon Receptor Signaling Pathway

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Concentration:	1.0 mg/mL
Buffer:	PBS containing 0.02 % Sodium Azide as preservative
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	-20 °C
Storage Comment:	Store the antibody (in aliquots) at -20 °C.



Western Blotting

Image 1. Western blot analysis of PHLPP2 in SW480 cell lysate with PHLPP2 Antibody at 1 µg/ml in (A) the presence and (B) the absence of blocking peptide.