Datasheet for ABIN6991746

anti-PHLPP1 antibody (N-Term)

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Overview

Quantity:	0.1 mg
Target:	PHLPP1
Binding Specificity:	AA 250-300, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PHLPP1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	PHLPP1 antibody was raised against an 18 amino acid synthetic peptide near the amino terminus of human PHLPP1. The immunogen is located within amino acids 250 - 300 of PHLPP1.
Isotype:	IgG
Specificity:	At least four isoforms are known to exist, this antibody will only detect the largest isoform. PHLPP1 antibody is predicted to not cross react with PHLPP2.
Purification:	PHLPP1 Antibody is affinity chromatography purified via peptide column.

Target Details

Target:	PHLPP1
Alternative Name:	PHLPP1 (PHLPP1 Products)

Target Details

Background:	PHLPP1 Antibody: PHLPP1 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 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. Increased expression of PHLPP1 may also play a role in obesity and type 2 diabetes by interfering with Akt-mediated insulin signaling.
Molecular Weight:	189 kDa
Gene ID:	23239
NCBI Accession:	NP_919431
UniProt:	O60346
Pathways:	PI3K-Akt Signaling, Fc-epsilon Receptor Signaling Pathway, Neurotrophin Signaling Pathway

Application Details

Application Notes:	PHLPP1 antibody can be used for detection of PHLPP1 by Western blot at 1 - 2 µ,g/mL. Antibody validated: Western Blot in human samples, Immunocytochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PHLPP1 Antibody is supplied in PBS containing 0.02 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,4 °C
Storage Comment:	PHLPP1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As

with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.