

Datasheet for ABIN6264947  
**anti-PHLPP1 antibody (C-Term)**[Go to Product page](#)

1 Image

1 Publication

## Overview

Quantity:	100 µL
Target:	PHLPP1
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PHLPP1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

## Product Details

Immunogen:	A synthesized peptide derived from human SCOP, corresponding to a region within C-terminal amino acids.
Isotype:	IgG
Specificity:	SCOP Antibody detects endogenous levels of total SCOP.
Predicted Reactivity:	Pig,Horse,Rabbit
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).

## Target Details

Target:	PHLPP1
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## Target Details

Alternative Name:	PHLPP1 ( <a href="#">PHLPP1 Products</a> )
Background:	<p>Description: Protein phosphatase involved in regulation of Akt and PKC signaling. Mediates dephosphorylation in the C-terminal domain hydrophobic motif of members of the AGC Ser/Thr protein kinase family, specifically acts on 'Ser-473' of AKT2 and AKT3, 'Ser-660' of PRKCB and 'Ser-657' of PRKCA (PubMed:15808505, PubMed:17386267, PubMed:18162466). Isoform 2 seems to have a major role in regulating Akt signaling in hippocampal neurons (By similarity). Akt regulates the balance between cell survival and apoptosis through a cascade that primarily alters the function of transcription factors that regulate pro- and antiapoptotic genes. Dephosphorylation of 'Ser-473' of Akt triggers apoptosis and suppression of tumor growth. Dephosphorylation of PRKCA and PRKCB leads to their destabilization and degradation (PubMed:18162466). Dephosphorylates STK4 on 'Thr-387' leading to STK4 activation and apoptosis (PubMed:20513427). Dephosphorylates RPS6KB1 and is involved in regulation of cap-dependent translation (PubMed:21986499). Inhibits cancer cell proliferation and may act as a tumor suppressor (PubMed:19079341). Dephosphorylates RAF1 inhibiting its kinase activity (PubMed:24530606). May act as a negative regulator of K-Ras signaling in membrane rafts (By similarity). Involved in the hippocampus-dependent long-term memory formation (By similarity). Involved in circadian control by regulating the consolidation of circadian periodicity after resetting (By similarity). Involved in development and function of regulatory T-cells (By similarity).</p> <p>Gene: PHLPP1</p>
Molecular Weight:	184 kDa
Gene ID:	23239
UniProt:	<a href="#">O60346</a>
Pathways:	<a href="#">PI3K-Akt Signaling</a> , <a href="#">Fc-epsilon Receptor Signaling Pathway</a> , <a href="#">Neurotrophin Signaling Pathway</a>

## Application Details

Application Notes:	WB 1:1000-3000, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only

## Handling

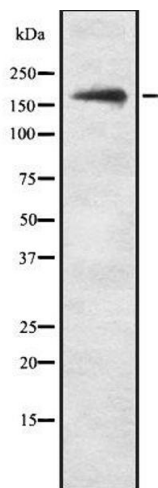
Format:	Liquid
Concentration:	1 mg/mL

## Handling

Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
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
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

## Publications

Product cited in:	<p>Shao, Zhang, Ma, Lu, Meng, Li, Wang, Chen, Zhang, Han, Liu, Ma: "MicroRNA-139-5p affects cisplatin sensitivity in human nasopharyngeal carcinoma cells by regulating the epithelial-to-mesenchymal transition." in: <b>Gene</b>, Vol. 652, pp. 48-58, (2018) (<a href="#">PubMed</a>).</p> <p>Li, Shen, Wang, Li, Wang, Jiang, Zhou, Feng: "EGCG regulates the cross-talk between JWA and topoisomerase IIα in non-small-cell lung cancer (NSCLC) cells." in: <b>Scientific reports</b>, Vol. 5, pp. 11009, (2016) (<a href="#">PubMed</a>).</p> <p>Li, Zhang, Sun, Sun, Shi, Liu, Liu: "MicroRNA-181a regulates epithelial-mesenchymal transition by targeting PTEN in drug-resistant lung adenocarcinoma cells." in: <b>International journal of oncology</b>, Vol. 47, Issue 4, pp. 1379-92, (2016) (<a href="#">PubMed</a>).</p>
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Western Blotting

**Image 1.** Western blot analysis SCOP using COLO205 whole cell lysates