

Datasheet for ABIN7599695
anti-PHLPP1 antibody (AA 1083-1436)



[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	PHLPP1
Binding Specificity:	AA 1083-1436
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PHLPP1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	Anti-SCOP/PHLPP1 Picoband® Antibody
Immunogen:	E.coli-derived human SCOP/PHLPP1 recombinant protein (Position: R1083-A1436).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	<p>Anti-SCOP/PHLPP1 Picoband® Antibody (ABIN7599695). Tested in ELISA, WB applications.</p> <p>This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.</p>
Purification:	Immunogen affinity purified.

Target Details

Target:	PHLPP1
Alternative Name:	PHLPP1 (PHLPP1 Products)
Background:	<p>Synonyms: PH domain leucine-rich repeat-containing protein phosphatase 1, Pleckstrin homology domain-containing family E member 1, PH domain-containing family E member 1, Suprachiasmatic nucleus circadian oscillatory protein, hSCOP, PHLPP1, KIAA0606, PHLPP, PLEKHE1, SCOP</p> <p>Tissue Specificity: Monocyte/macrophage specific.</p> <p>Background: The PHLPP isoforms (PH domain and Leucine rich repeat Protein Phosphatases) are a pair of protein phosphatases, PHLPP1 and PHLPP2, that are important regulators of Akt serine-threonine kinases (Akt1, Akt2, Akt3) and conventional/novel protein kinase C (PKC) isoforms. It is mapped to 18q21.33. This gene encodes a member of the serine/threonine phosphatase family. The encoded protein promotes apoptosis by dephosphorylating and inactivating the serine/threonine kinase Akt, and functions as a tumor suppressor in multiple types of cancer. Increased expression of this gene may also play a role in obesity and type 2 diabetes by interfering with Akt-mediated insulin signaling.</p>
Molecular Weight:	140 kDa
Gene ID:	23239
UniProt:	O60346
Pathways:	PI3K-Akt Signaling , Fc-epsilon Receptor Signaling Pathway , Neurotrophin Signaling Pathway

Application Details

Application Notes:	<p>Western blot, 0.25-0.5 µg/mL, Human</p> <p>ELISA, 0.1-0.5 µg/mL, -</p> <p>1. Brognard, J., Sierceki, E., Gao, T., Newton, A. C. PHLPP and a second isoform, PHLPP2, differentially attenuate the amplitude of Akt signaling by regulating distinct Akt isoforms. <i>Molec. Cell</i> 25: 917-931, 2007. 2. Chen, H. H., Handel, N., Ngeow, J., Muller, J., Huhn, M., Yang, H.-T., Heindl, M., Berbers, R.-M., Hegazy, A. N., Kionke, J., Yehia, L., Sack, U., and 15 others. Immune dysregulation in patients with PTEN hamartoma tumor syndrome.: analysis of FOXP3 regulatory T cells. <i>J. Allergy Clin. Immun.</i> 139: 607-620, 2017. 3. Cheng, H.-Y. M., Papp, J. W., Varlamova, O., Dziema, H., Russell, B., Curfman, J. P., Nakazawa, T., Shimizu, K., Okamura, H., Impey, S., Obrietan, K. microRNA modulation of circadian-clock period and entrainment. <i>Neuron</i> 54: 813-829, 2007.</p>
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg NaN ₃ .
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:	4 °C, -20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.