

Datasheet for 600-401-DM3**PHLPP2 Antibody****Overview**

Description:	Anti-PHLPP2 (RABBIT) Antibody - 600-401-DM3
Item No.:	600-401-DM3
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

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 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:	PHLPP2 Antibody, PHLPP1, KIAA0931, PHLPP, PH domain leucine-rich repeat-containing protein phosphatase 2, PH domain leucine-rich repeat-containing protein phosphatase-like, PHLPP-like
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	PHLPP2
Reactivity:	Human
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-PHLPP2 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 20 amino acid synthetic peptide near the C-terminus of human PHLPP2.

Purity/Specificity: Anti-PHLPP2 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. At least three isoforms are known to exist; this antibody will detect the two largest isoforms. PHLPP2 antibody is predicted to not cross react with PHLPP1.

Relevant Links:

- [UniProtKB - Q6ZVD8](#)
- [GeneID - 23035](#)
- [NCBI - NP_055835](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-PHLPP2 Antibody has been tested for use in ELISA, Western Blotting, Immunocytochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 147 kDa in Western Blots of specific cell lysates and tissues.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:10,000

IHC: User Optimized

WB: 1 µg/mL

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1 mg/mL by UV absorbance at 280 nm

Buffer: 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2

Preservative: 0.02% (w/v) Sodium Azide

Stabilizer: None

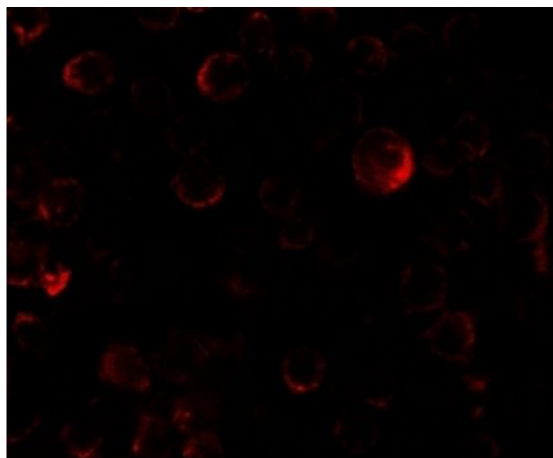
Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunofluorescence Microscopy

Immunofluorescence of PHLPP2.

Tissue: SW480 cells.

Primary Antibody: PHLPP2 antibody at 5 µg/ml.

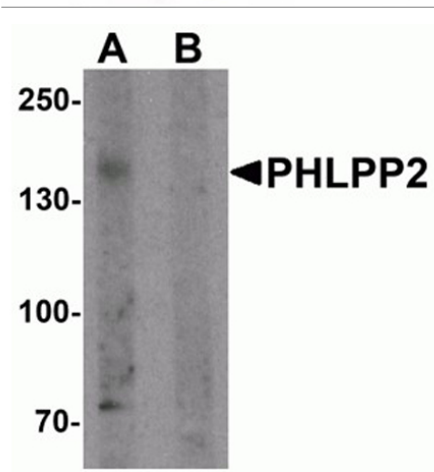


Immunocytochemistry

Immunocytochemistry of PHLPP2.

Cell: SW480 cells.

Primary Antibody: PHLPP2 antibody at 2.5 µg/ml.



Western Blot

Western blot analysis of PHLPP2.

Load: SW480 cell lysate.

Primary Antibody: PHLPP2 antibody at 1 µg/ml in (A) the presence and (B) the absence of blocking peptide.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.