

PHLPP1 Polyclonal Antibody

Catalog NumberPA5-34434

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human
Host/Isotope	Rabbit / IgG	Published species	Human, Not Applicable
Class	Polyclonal	Tested Applications	
Type	Antibody	Western Blot (WB)	1-2 µg/mL
Immunogen	An 18 amino acid synthetic peptide near the amino terminus of human PHLPP1	Immunocytochemistry (ICC/IF)	25 µg/mL
		* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Conjugate	Unconjugated		
Form	Liquid		
Concentration	1 mg/mL		
Purification	Antigen affinity chromatography		
Storage buffer	PBS		
Contains	0.02% sodium azide		
Storage Conditions	Maintain refrigerated at 2-8°C for up to 3 months. For long term storage store at -20°C		

Product specific information

A suggested positive control is SW480 cell lysate. PA5-34434 can be used with blocking peptide PEP-1476.

Background/Target Information

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.

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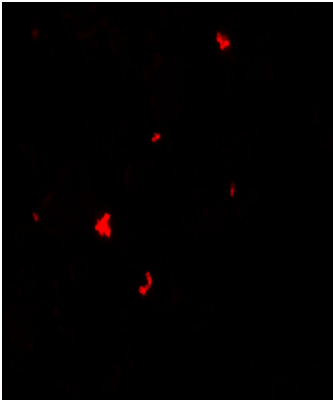
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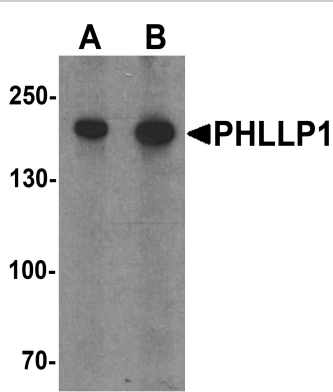
Product Images For PHLPP1 Polyclonal Antibody



**PHLPP1 Antibody (PA5-34434) in ICC/IF**  
Immunocytochemistry of PHLPP1 in SW480 cells with PHLPP1 Polyclonal Antibody (Product # PA5-34434) at 2.5 µg/mL.



**PHLPP1 Antibody (PA5-34434) in ICC/IF**  
Immunofluorescence of PHLPP1 in SW480 cells with PHLPP1 Polyclonal Antibody (Product # PA5-34434) at 5 µg/mL.



**PHLPP1 Antibody (PA5-34434) in WB**  
Western Blot analysis of PHLPP1 in SW480 cell lysate with PHLPP1 Polyclonal Antibody (Product # PA5-34434) at (A) 1 and (B) 2 µg/mL.

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