

ZIPK Polyclonal Antibody

Catalog Number PA5-19902

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human, Mouse, Rat
Host/Isotope	Rabbit / IgG	Tested Applications	Dilution *
Class	Polyclonal		
Type	Antibody	Western Blot (WB)	1 µg/mL
Immunogen	A peptide corresponding to amino acids near the center of human ZIP kinase.	Immunocytochemistry (ICC/IF)	5 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

In Western blot applications, this antibody detects a band at ~40kDa, which represents the pro-enzyme of DNase II. A suggested positive control is human spleen tissue lysate. PA5-19902 can be used with blocking peptide PEP-0028.

Background/Target Information

DAPK3 is a serine/threonine kinase which is functionally linked to cell motility, smooth muscle contractility and cell death processes. DAPK3 is encoded by ZIPK and is a component of desmosomes and of the epidermal cornified envelope in keratinocytes. The N-terminal domain of this protein interacts with the plasma membrane and its C-terminus interacts with intermediate filaments. Through its rod domain, this protein forms complexes with envoplakin. This protein may serve as a link between the cornified envelope and desmosomes as well as intermediate filaments. AKT1/PKB, a protein kinase mediating a variety of cell growth and survival signaling processes, is reported to interact with this protein, suggesting a possible role for this protein as a localization signal in AKT1-mediated signaling.

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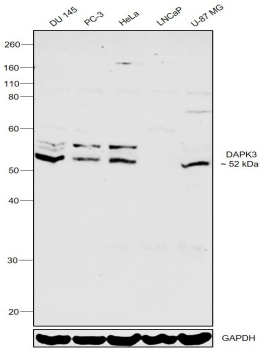
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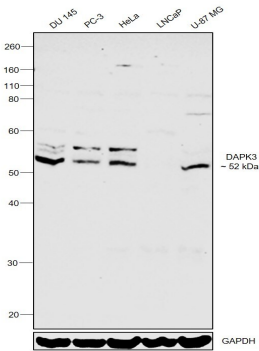
ZIPK Antibody (PA5-19902) in WB

Western blot was performed using Anti-ZIPK Polyclonal Antibody (Product # PA5-19902) and a 52 kDa band corresponding to DAPK3 was observed across cell lines tested except LNCaP which is reported to be low. A doublet banding pattern is observed, which probably is due to autophosphorylation of the DAPK3 which is reported. Modified whole cell extracts (1% SDS) (30 µg lysate) of DU 145 (Lane 1), PC-3 (Lane 2), HeLa (Lane 3), LNCaP (Lane 4) and U-87 MG (Lane 5) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0322BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1 µg/mL) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



ZIPK Antibody (PA5-19902)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell lines tested owing to their inherent genetic constitution. Relative expression of DAPK3 was observed in DU 145, PC-3, HeLa and U-87 MG in comparison to LNCaP using Anti-ZIPK Polyclonal Antibody (Product # PA5-19902) in Western Blot. {RE}



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