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Datasheet for ABIN968110 anti-PKN1 antibody (AA 215-388)

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Overview

Quantity:	50 µg
Target:	PKN1
Binding Specificity:	AA 215-388
Reactivity:	Human, Mouse, Rat, Dog
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PKN1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP)

Product Details

Immunogen:	Human PRK1 aa. 215-388
Clone:	49-PRK1
Isotype:	lgG1
Cross-Reactivity:	Dog (Canine), Rat (Rattus), Mouse (Murine)
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
	2. Please refer to us for technical protocols.
	3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide
	compounds in running water before discarding to avoid accumulation of potentially explosive
	deposits in plumbing.
	4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

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Product Details	
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity
	chromatography.

Target Details

Target:	PKN1
Alternative Name:	PRK1 (PKN1 Products)
Background:	Members of the Protein Kinase C (PKC) family of homologous serine/threonine protein kinases
	are involved in a number of processes such as cell growth, cell differentiation, and cytokine
	secretion. PKCs are activated by Ca2+, phospholipids, diacylglycerol, phorbol esters, and
	proteolysis. PRK1 (PKC-Related Kinase 1, also named PKN) was originally identified in human
	hippocampus as a novel protein kinase with sequence homology to PKC. PRK1 contains 942
	amino acids with an apparent molecular weight of 120 kDa. Although activated by limited
	proteolysis, PRK1 is not activated by Ca2+/diacylglycerol or phorbol esters. However, PRK1 is
	activated by phospholipids and arachidonic acid. PRK1 may regulate cytoskeletal changes
	since it binds to Rho-GTP and becomes phosphorylated in vivo, coincidentally with the
	formation of focal adhesions and stress fibers.
	Synonyms: PKN
Molecular Weight:	120 kDa
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤ 0.09 % sodium azide.
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 undiluted at -20°C.

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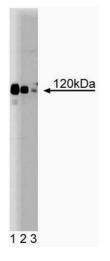
Hughes, Larijani, Parker: "Detecting protein-phospholipid interactions. Epidermal growth factorinduced activation of phospholipase D1b in situ." in: **The Journal of biological chemistry**, Vol. 277, Issue 25, pp. 22974-9, (2002) (PubMed).

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Palmer, Ridden, Parker: "Cloning and expression patterns of two members of a novel proteinkinase-C-related kinase family." in: **European journal of biochemistry / FEBS**, Vol. 227, Issue 1-2 , pp. 344-51, (1995) (PubMed).

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Images

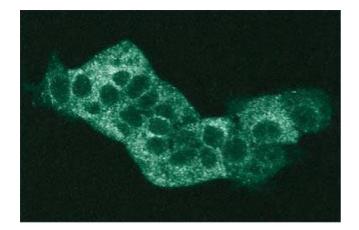


Western Blotting

Image 1. Western blot analysis of PRK1 on Jurkat lysate. Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of PRK1.

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Images



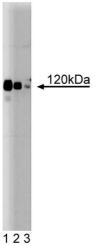


Image 2. MCF7

Western Blotting

Image 3.

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