

Human/Mouse PKN1 Antibody

Monoclonal Mouse IgG₁ Clone # 540421

Catalog Number: MAB6100

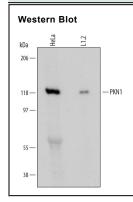
DESCRIPTION		
Species Reactivity	Human/Mouse	
Specificity	Detects human and mouse PKN1 in Western blots.	
Source	Monoclonal Mouse IgG ₁ Clone # 540421	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	E. coli-derived recombinant human PKN1 Ile215-Thr388 Accession # Q16512	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below

DATA



Detection of Human and Mouse PKN1 by Western Blot. Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line and L1.2 mouse pro-B cell line. PVDF Membrane was probed with 1 µg/mL of Mouse Anti-Human/Mouse PKN1 Monoclonal Antibody (Catalog # MAB6100) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for PKN1 at approximately 120 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
	*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

- Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
 - 12 months from date of receipt, -20 to -70 °C as supplied
 - 1 month, 2 to 8 °C under sterile conditions after reconstitution.
 - 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

PKN1 (serine/threonine protein kinase N1), also known as PKN or PRK, is a ubiquitous 120 kDa cytoplasmic kinase of the PKC superfamily. The 942 amino acid (aa) PKN1 contains three HR1 repeats (aa 34-263), a C2 domain (aa 325-461), and a protein kinase domain (aa 615-874). PKN1 can be activated by proteolysis, lipid interaction, or Rho G proteins, and is a downstream effector of RhoA. It promotes the activation of several kinases involved in regulation of the actin cytoskeleton, cell cycle, and apoptosis. In vivo, PKN1 phosphorylates histone H3 at the Thr11 position.

