

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	<i>E. coli</i> -derived recombinant human PKN1 Ile215-Thr388 Accession # Q16512
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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.

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