

DESCRIPTION

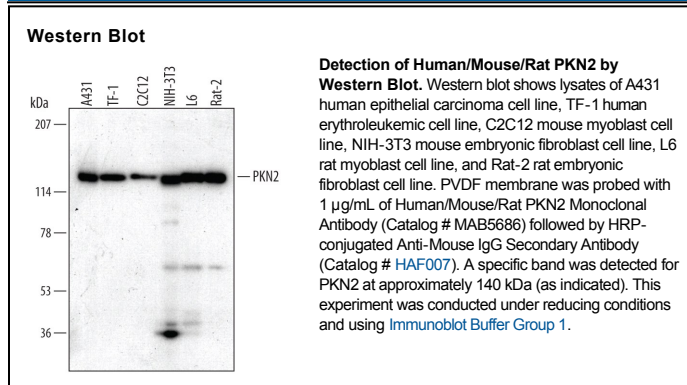
Species Reactivity	Human/Mouse/Rat
Specificity	Detects endogenous human, mouse and rat PKN2 in Western blots.
Source	Monoclonal Mouse IgG ₁ Clone # 509105
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human PKN2 Asp18-Asn207 Accession # Q16513
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



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. <ul style="list-style-type: none"> ● 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

Serine/Threonine Protein Kinase N2 (PKN2), also known as PRK2, is a cytoplasmic kinase that contains three HR1 repeats (aa 44-295), one C2 domain (aa 330-463), and one protein kinase domain (aa 657-916). PKN2 is a downstream effector of RhoA and promotes the activation of several kinases involved in regulation of the actin cytoskeleton, cell cycle, and apoptosis. PKN2 cleavage during apoptosis generates a C-terminal fragment that inhibits PDK1 and Akt. PKN2 is also important in the intracellular replication of hepatitis C virus and *Yersinia pestis*.