

Anti-PDK1 (C-terminal region) Antibody
Catalog # AN1893**Specification****Anti-PDK1 (C-terminal region) Antibody - Product Information**

Application	WB
Primary Accession	O15530
Reactivity	Bovine
Host	Mouse
Clonality	Mouse Monoclonal
Isotype	IgG1
Calculated MW	63152

Anti-PDK1 (C-terminal region) Antibody - Additional Information

Gene ID	5170
Other Names	
PDPK1, PKBK	

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Anti-PDK1 (C-terminal region) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

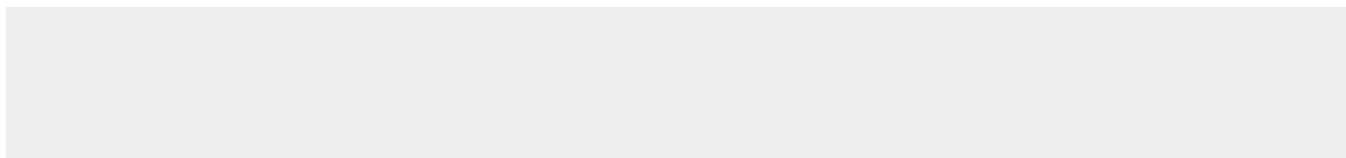
Shipping

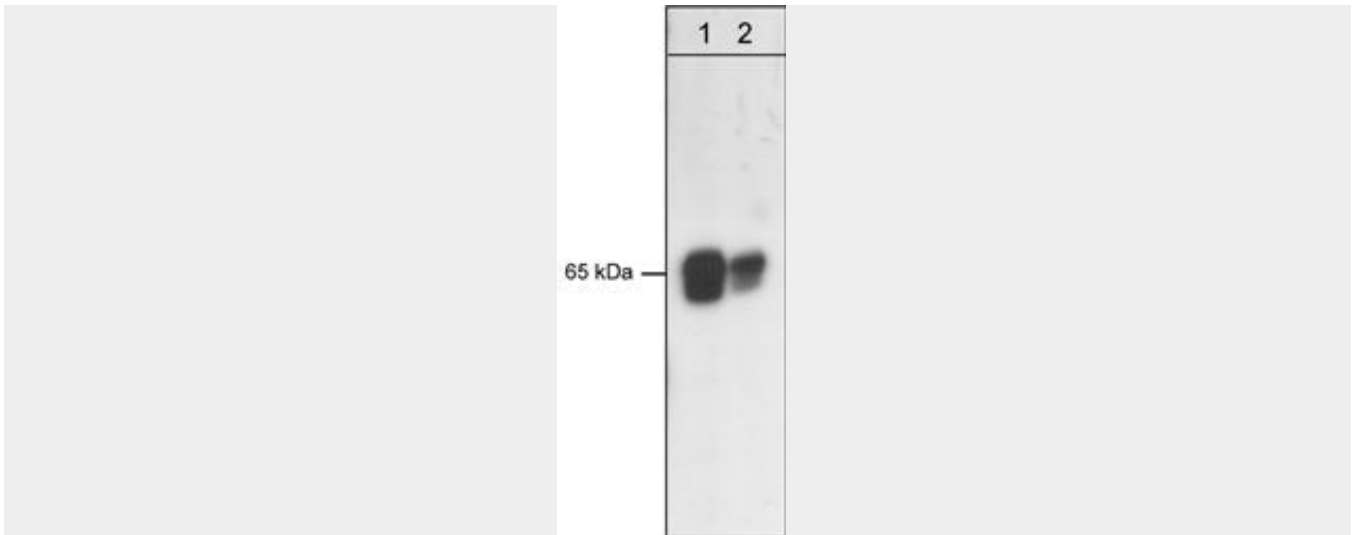
Blue Ice

Anti-PDK1 (C-terminal region) Antibody - Protocols

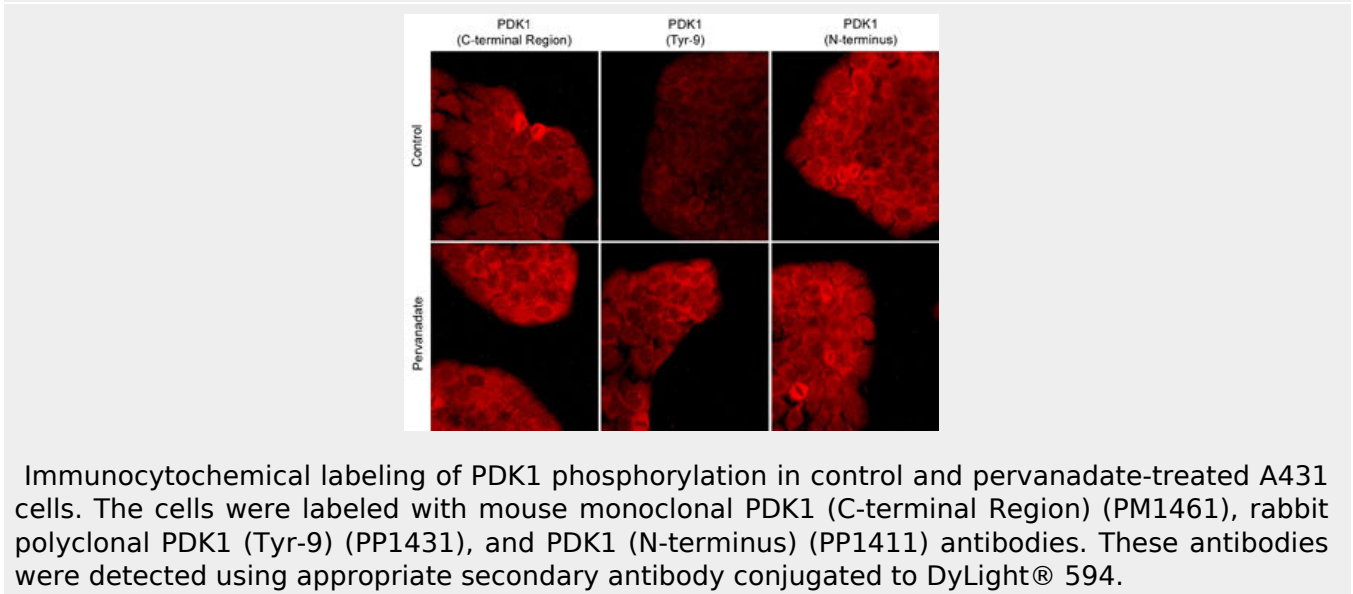
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-PDK1 (C-terminal region) Antibody - Images



Western blot image of mouse brain (lane 1) and human A431 cells (lane 2). The blot was probed with anti-PDK1 (C-terminal region) (PM1461).



Immunocytochemical labeling of PDK1 phosphorylation in control and pervanadate-treated A431 cells. The cells were labeled with mouse monoclonal PDK1 (C-terminal Region) (PM1461), rabbit polyclonal PDK1 (Tyr-9) (PP1431), and PDK1 (N-terminus) (PP1411) antibodies. These antibodies were detected using appropriate secondary antibody conjugated to DyLight® 594.

Anti-PDK1 (C-terminal region) Antibody - Background

3-Phosphoinositide-dependent kinase 1 (PDK1), also known as PKB kinase, was identified as the activator of the survival kinase Akt/PKB. Several important substrates of PDK1 include p70S6 kinase, PKAs, PKCs, SGKs, RSKs, and PAKs. PDK1 is a member of the AGC superfamily of serine/threonine kinases. Through the phosphorylation of downstream kinases, like Akt, PDK1 has been shown to be involved in several different cell functions, such as protein synthesis, cell survival, glucose metabolism, and cell adhesion and migration. The regulation of PDK1 occurs through lipid second messengers and phosphorylation. Multiple serine sites are phosphorylated on PDK1. Serine 241 phosphorylation is required for PDK1 activity, while serine 396 has been implicated in PDK1 nuclear translocation. Tyrosine phosphorylation may also regulate PDK1 activity. Tyrosines 9 and 373/376 are phosphorylated by c-Src in vitro. Tyr-373/Tyr-376 are important for PDK1 activity, while Tyr-9 phosphorylation permits Tyr-373/Tyr-376 phosphorylation by c-Src. In addition, Tyr-9 may be important during angiotensin-II-induced focal adhesion formation.