

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

|                   |                        |
|-------------------|------------------------|
| Application       | WB                     |
| Primary Accession | <a href="#">O15530</a> |
| Reactivity        | Bovine                 |
| Host              | Mouse                  |
| Clonality         | Mouse Monoclonal       |
| Isotype           | IgG1                   |
| Calculated MW     | 63152                  |

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

|                    |      |
|--------------------|------|
| Gene ID            | 5170 |
| <b>Other Names</b> |      |
| 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.

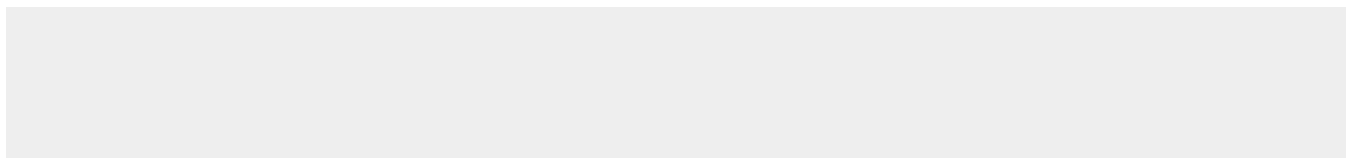
**Shipping**

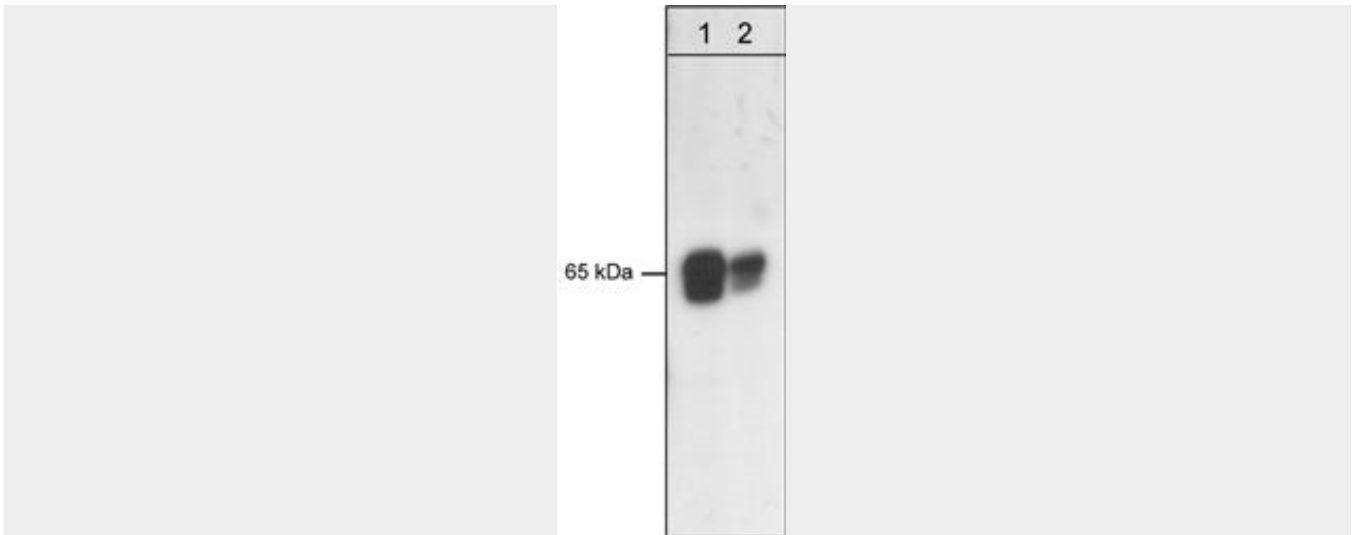
Blue Ice

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

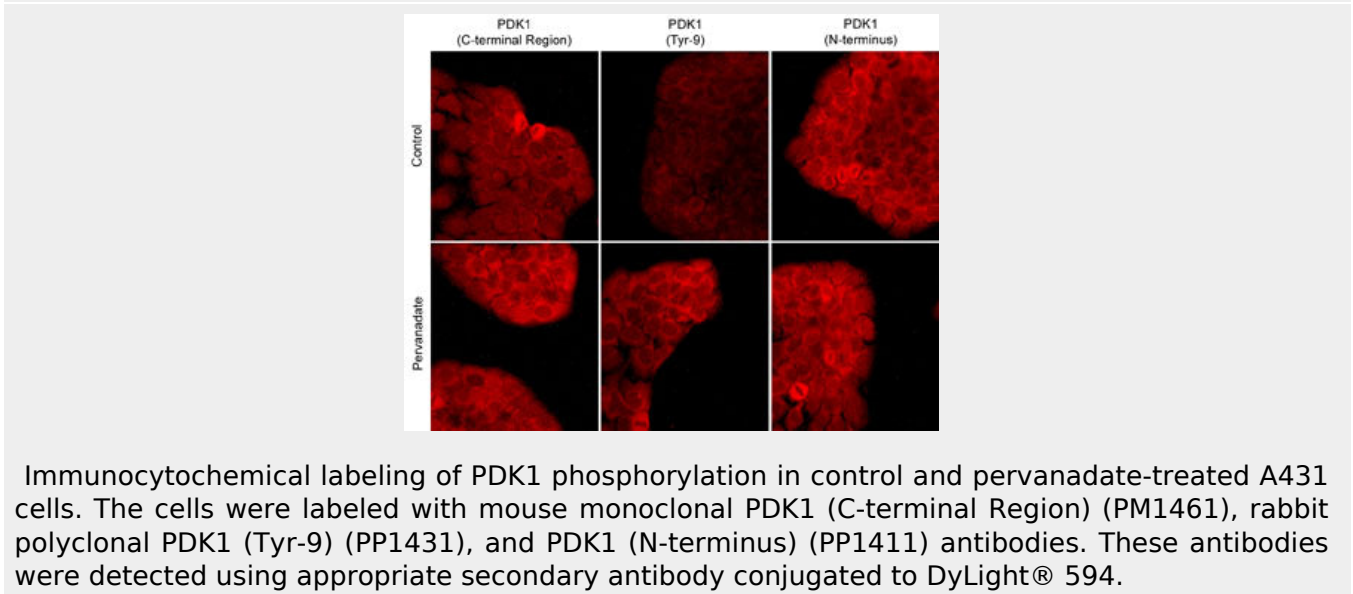
Provided below are standard protocols that you may find useful for product applications.

- [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).



### 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.