

**DAPK2 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP7033a****Specification**

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**DAPK2 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [Q9UIK4](#)**DAPK2 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 23604**Other Names**

Death-associated protein kinase 2, DAP kinase 2, DAP-kinase-related protein 1, DRP-1, DAPK2

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody <a href="/product/products/AP7033a">AP7033a</a> was selected from the N-term region of humanPK2 . A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**DAPK2 Antibody (N-term) Blocking Peptide - Protein Information****Name** DAPK2**Function**

Calcium/calmodulin-dependent serine/threonine kinase involved in multiple cellular signaling pathways that trigger cell survival, apoptosis, and autophagy. Regulates both type I apoptotic and type II autophagic cell death signals, depending on the cellular setting. The former is caspase-dependent, while the latter is caspase-independent and is characterized by the accumulation of autophagic vesicles. Acts as a mediator of anoikis and a suppressor of beta-catenin-dependent anchorage-independent growth of malignant epithelial cells. May play a role in granulocytic maturation (PubMed:<a href="http://www.uniprot.org/citations/17347302" target="\_blank">17347302</a>). Regulates granulocytic motility by controlling cell spreading and polarization (PubMed:<a href="http://www.uniprot.org/citations/24163421" target="\_blank">24163421</a>).

**Cellular Location**

Cytoplasm. Cytoplasmic vesicle, autophagosome lumen

**Tissue Location**

Expressed in neutrophils and eosinophils (PubMed:24163421). Isoform 2 is expressed in embryonic stem cells (at protein level). Isoform 1 is ubiquitously expressed in all tissue types examined with high levels in heart, lung and skeletal muscle

**DAPK2 Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**DAPK2 Antibody (N-term) Blocking Peptide - Images****DAPK2 Antibody (N-term) Blocking Peptide - Background**

DAPK2 belongs to the serine/threonine protein kinase family. This protein contains a N-terminal protein kinase domain followed by a conserved calmodulin-binding domain with significant similarity to that of death-associated protein kinase 1 (DAPK1), a positive regulator of programmed cell death. Overexpression of this gene was shown to induce cell apoptosis. It uses multiple polyadenylation sites.

**DAPK2 Antibody (N-term) Blocking Peptide - References**

Satoh, A., et al., Br. J. Cancer 86(11):1817-1823 (2002). Chan, M.W., et al., Clin. Cancer Res. 8(2):464-470 (2002). Wong, T.S., et al., Clin. Cancer Res. 8(2):433-437 (2002). Shani, G., et al., EMBO J. 20(5):1099-1113 (2001). Inbal, B., et al., Mol. Cell. Biol. 20(3):1044-1054 (2000).