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DAPK2 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP7218a

Specification

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 >AP7218a 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:17347302). Regulates granulocytic motility by controlling cell spreading and polarization (PubMed:24163421).

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).