

**DAPK2 / DAP Kinase 2 Antibody (C-Terminus)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS11447****Specification**

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**DAPK2 / DAP Kinase 2 Antibody (C-Terminus) - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">O9UIK4</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	43kDa KDa

**DAPK2 / DAP Kinase 2 Antibody (C-Terminus) - Additional Information****Gene ID** 23604**Other Names**

Death-associated protein kinase 2, DAP kinase 2, 2.7.11.1, DAP-kinase-related protein 1, DRP-1, DAPK2

**Target/Specificity**

peptide corresponding to amino acids near the carboxy terminus of human DAPK2 The sequence of this antigenic peptide is identical to the corresponding amino acids of mouse origin (1,2)

**Reconstitution & Storage**

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

**Precautions**

DAPK2 / DAP Kinase 2 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

**DAPK2 / DAP Kinase 2 Antibody (C-Terminus) - 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

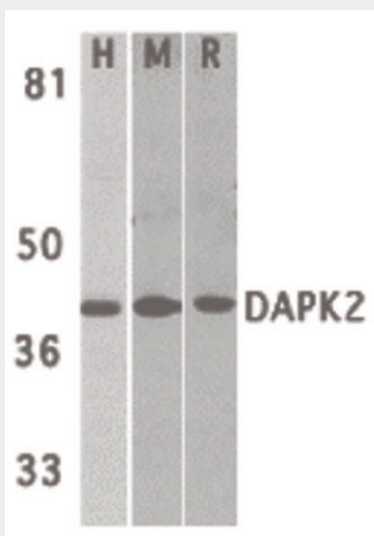
**Tissue Location**

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

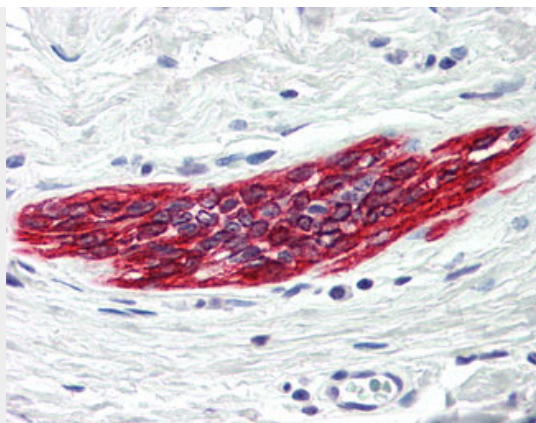
**DAPK2 / DAP Kinase 2 Antibody (C-Terminus) - Protocols**

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

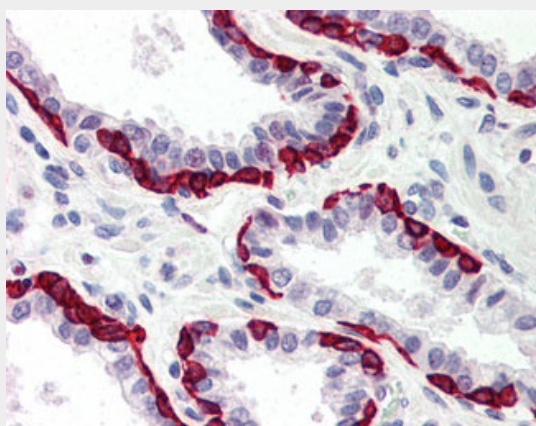
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**DAPK2 / DAP Kinase 2 Antibody (C-Terminus) - Images**

Western blot of DAPK2 in A431 (H), mouse spleen (M), and rat kidney (R) lysates with DAPK2...



Anti-DAPK2 antibody IHC of human breast.



Anti-DAPK2 antibody IHC of human prostate.

#### **DAPK2 / DAP Kinase 2 Antibody (C-Terminus) - Background**

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 deaths signal, 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.

#### **DAPK2 / DAP Kinase 2 Antibody (C-Terminus) - References**

Kawai T.,et al.Oncogene 18:3471-3480(1999).  
Inbal B.,et al.Mol. Cell. Biol. 20:1044-1054(2000).  
Shoval Y.,et al.PLoS ONE 6:E17344-E17344(2011).  
Zody M.C.,et al.Nature 440:671-675(2006).  
Shani G.,et al.EMBO J. 20:1099-1113(2001).