

**DAPK2 / DAP Kinase 2 Antibody (clone 1B5)**  
**Mouse Monoclonal Antibody**  
**Catalog # ALS16708****Specification**

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**DAPK2 / DAP Kinase 2 Antibody (clone 1B5) - Product Information**

Application	IHC, IF, WB
Primary Accession	<a href="#">O9UIK4</a>
Other Accession	<a href="#">23604</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2b
Calculated MW	42898

**DAPK2 / DAP Kinase 2 Antibody (clone 1B5) - Additional Information****Gene ID** 23604**Other Names**

DAPK2, DAP-kinase-related protein 1, DRP-1, DRP1, DAP kinase 2

**Target/Specificity**

Human DAPK2

**Reconstitution & Storage**

PBS, pH 7.3, 1% BSA, 50% glycerol, 0.02% sodium azide. Store at -20°C. Minimize freezing and thawing.

**Precautions**

DAPK2 / DAP Kinase 2 Antibody (clone 1B5) is for research use only and not for use in diagnostic or therapeutic procedures.

**DAPK2 / DAP Kinase 2 Antibody (clone 1B5) - 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

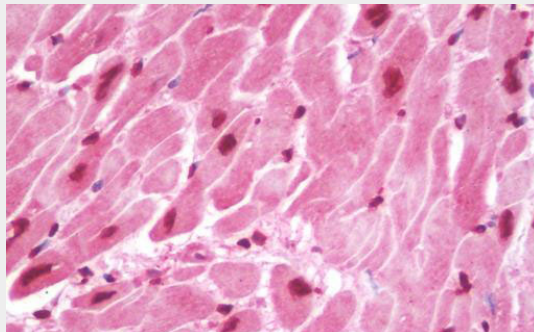
**Volume**

50 µl

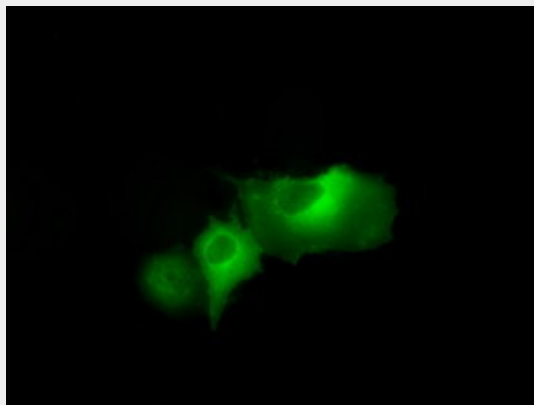
**DAPK2 / DAP Kinase 2 Antibody (clone 1B5) - Protocols**

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

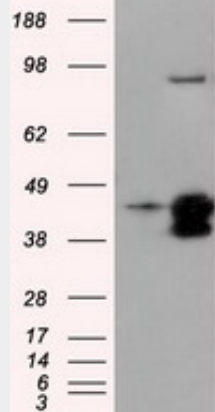
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**DAPK2 / DAP Kinase 2 Antibody (clone 1B5) - Images**

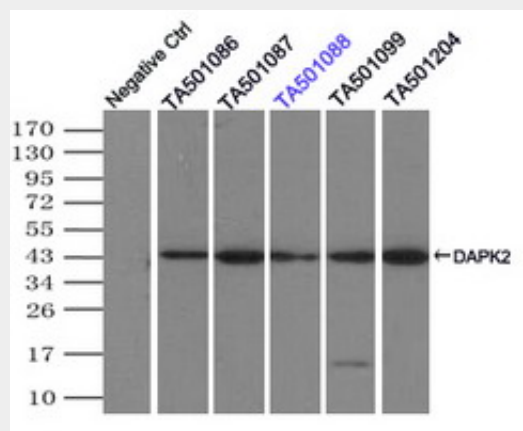
Anti-DAPK2 / DRP1 antibody IHC staining of human heart.



Anti-DAPK2 mouse monoclonal antibody immunofluorescent staining of COS7 cells transiently...



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY DAPK2...



Immunoprecipitation(IP) of DAPK2 by using monoclonal anti-DAPK2 antibodies (Negative control: IP...

### **DAPK2 / DAP Kinase 2 Antibody (clone 1B5) - 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 (clone 1B5) - 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).