ARG54388
anti-DAPK2 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes DAPK2
Tested Reactivity	Hu, Ms, Rat
Tested Application	IHC-P, WB
Specificity	This antibody recognizes human, mouse, and rat DAPK2 (approx. 42kDa) and does not cross-react with DAPK.
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	DAPK2
Species	Human
Immunogen	Peptide corresponding to aa 356-370 of human DAPK2 (accession no. BAA88063). This sequence is identical to that of mouse.
Conjugation	Un-conjugated
Alternate Names	DRP1; DAP-kinase-related protein 1; DRP-1; DAP kinase 2; EC 2.7.11.1; Death-associated protein kinase 2

Application Instructions

Application table

Application	Dilution
IHC-P	Assay-dependent
WB	Assay-dependent

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Positive Control: A431, Mouse spleen and Rat kidney

Properties

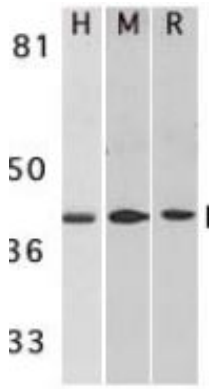
Form	Liquid
Purification	Immunoaffinity chroma-tography
Buffer	PBS (pH 7.4) and 0.02% Sodium azide
Preservative	0.02% Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

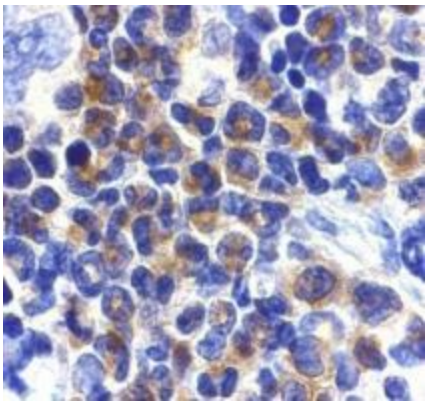
Database links	GeneID: 13143 Mouse GeneID: 23604 Human Swiss-port # Q8VDF3 Mouse Swiss-port # Q9UIK4 Human
Gene Symbol	DAPK2
Gene Full Name	death-associated protein kinase 2
Background	Certain serine/threonine protein kinases, such as RIP and DAP kinase, are mediators of apoptosis. DAP kinase (DAPK) is a pro-apoptotic, calcium-regulated serine/threonine kinase containing a death domain. Expression of DAPK induces cell death and suppresses oncogenic trans-formation. DAPK mediates IFN -induced apoptosis. A DAPK-related protein was recently described and designated DAPK2, or DRP-1. Expression of DAPK2 induces apoptosis. The messenger RNA for DAPK2 is expressed in multiple human tissues.
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 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. Isoform 2 is not regulated by calmodulin. It can phosphorylate MYL9. It can induce membrane blebbing and autophagic cell death. [UniProt]
Research Area	Cell Biology and Cellular Response antibody; Cell Death antibody
Calculated Mw	43 kDa
PTM	Autophosphorylation at Ser-318 inhibits its catalytic activity. Dephosphorylated at Ser-318 in response to activated Fas and TNF-alpha receptors.

Images



ARG54388 anti-DAPK2 antibody WB image

Western blot: H:A431; M:Mouse spleen ; R: Rat kidney stained with ARG54388 anti-DAPK2 antibody at 1 µg/ml dilution.



ARG54388 anti-DAPK2 antibody IHC image

Immunohistochemistry: Mouse spleen stained with ARG54388 anti-DAPK2 antibody at 2 µg/ml dilution.