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DAPK2 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5377

Product Information

Application	WB
Primary Accession	Q9UIK4
Reactivity	Mouse, Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	42898
Isotype	Rabbit IgG
Antigen Source	HUMAN

Additional Information

Gene ID	23604
Antigen Region	1-30
Other Names	Death-associated protein kinase 2, DAP kinase 2, DAP-kinase-related protein 1, DRP-1, DAPK2
Dilution	WB~~1:1000
Target/Specificity	This DAPK2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human DAPK2.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	DAPK2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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

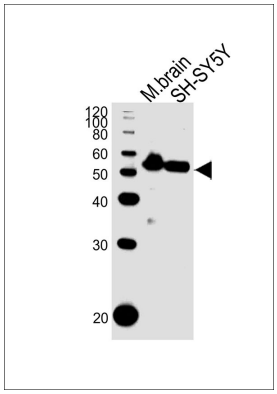
Background

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.

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).

Images



All lanes : Anti-DAPK2 Antibody M1 at 1:1000 dilution Lane 1: mouse brain lysates Lane 2: SH-SY5Y whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L),Peroxidase conjugated at 1/10000 dilution Predicted band size : 43 kDa Blocking/Dilution buffer: 5% NFDM/TBST.