DAPK1 Antibody

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 160	Source: Rabbit	UniProt ID: #P53355	Entrez-Gene Id: 1612
Product Usage Information	-	pplication estern Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity / Sensitivity		DAPK1 Antibody detects endogenous levels of total DAPK1 protein.				
Species predicted react based on 100 sequence homolog	0%	t, Monkey				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly903 of human DAPK1. Antibodies are purified by protein A and peptide affinity chromatography.				
Background	par act cal a c act exp cat (MI vitr Epi	Death-associated protein kinase (DAPK1) is a Ca2+/calmodulin-regulated serine/threonine kinase that participates in a wide range of apoptotic signals including interferon-γ, tumor necrosis factor α, Fas, activated c-Myc, and detachment from the extracellular matrix. In addition to the kinase domain and calmodulin regulatory segment, DAPK1 also has eight ankyrin repeats, a cytoskeleton binding region, and a conserved death domain (1-3). Deletion of the calmodulin-regulatory domain generates a constitutively active mutant kinase. Ectopic expression of wild-type DAPK1 induced cell death in HeLa cells. Conversely, expression of a catalytically inactive mutant protected cells from interferon-γ-induced cell death (4). The catalytic domain of DAPK1 has very high sequence similarity to vertebrate myosin light chain kinase (MLCK) and a RXX(S/T)X motif derived from myosin light chain protein was shown to be phosphorylated <i>in vitro</i> by DAPK1 (5). Epigenetic silencing of DAPK1 by promoter methylation has been observed in cases of chronic lymphocytic leukemia (6,7).				
Background Refer	2. (3. [4. (5. \ 6. F	Kimchi, A. (1999) Ann Cohen, O. et al. (1999 Deiss, L. P. et al. (1997 Cohen, O. et al. (1997 Velentza, A. V. et al. (Raval, A. et al. (2007) Katzenellenbogen, R.	 <i>A</i>) <i>J</i> Cell Biol 146, 1 <i>B</i>) <i>Genes Dev</i> 9, 1 <i>EMBO J</i> 16, 998 <i>B</i>) <i>J</i> Biol Chem <i>Cell</i> 129, 879-890 	.41-148. 5-30. -1008. 276, 38956-38965.		
Species Reactivity	spe	cies reactivity is dete	rmined by testing i	n at least one appro	ved application (e.g., we	stern blot).
		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		WB: Western Blotting				
Cross-Reactivity K	X: ×		B: bovine Dg: dog	Pg: pig Sc: S. cere	Mi: mink C: chicken Dn visiae Ce: C. elegans Hr	-

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Limited Uses

DAPK1 Antibody (#3008) Datasheet Without Images Cell Signaling Technology

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