

Rabbit anti-Human DAPK2 Polyclonal Antibody | anti-DAPK2 antibody

DAPK2 Antibody

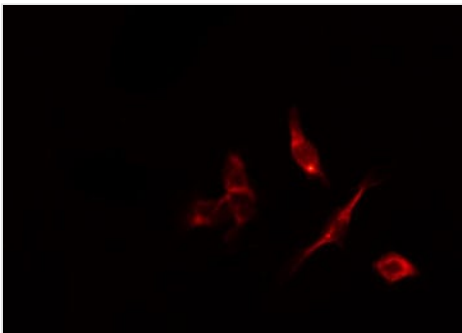
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327416	Rabbit	Human	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

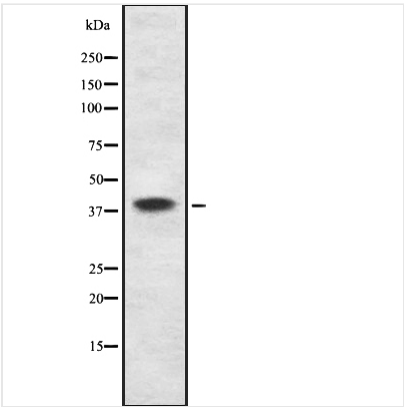
DAPK2; Polyclonal Antibody; DAPK2 Antibody; DAK2; DAP kinase 2; DAP kinase related protein 1; DAP kinase related protein 1 beta isoform; DAP-kinase-related protein 1; DAPK2_HUMAN; Death associated protein kinase 2; Death-associated protein kinase 2; DRP 1; DRP-1; DRP1; MGC119312; anti-DAPK2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	DAPK2 antibody detects endogenous levels of total DAPK2
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	370
Applicable Applications for anti-DAPK2 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human DAPK2
Subcellular Location	Cytoplasm.
Tissue Specificity	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.
Predicted Cross Reactivity	Pig, Horse, Sheep, Rabbit
Similarity	Pig (92%), Horse (100%), Sheep (92%), Rabbit (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IF (Immunofluorescence)
AAA327416 staining HepG2 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



WB (Western Blot)
Western blot analysis of DAPK2 using K562 whole cell lysates

ADDITIONAL INFORMATION

Related Product Information for anti-DAPK2 antibody	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). Subunit Structure: Homodimer in its autoinhibited state. Active as monomer (By similarity). Isoform 2 but not isoform 1 can interact with ATF4. Interacts with 14-3-3 proteins YWHAB, YWHAE, YWHAG, YWHAH, YWHAQ, YWHAZ and SFN; the interaction requires DAPK2 phosphorylation at Thr-369 and suppresses DAPK2 kinase activity and DAPK2-induced apoptosis (PubMed:26047703). Post-translational Modifications: Autophosphorylation at Ser-318 inhibits its catalytic activity. Dephosphorylated at Ser-318 in response to activated Fas and TNF-alpha receptors. Similarity: The autoinhibitory domain sterically blocks the substrate peptide-binding site by making both hydrophobic and electrostatic contacts with the kinase core. Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. DAP kinase subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	14670383
NCBI GeneID	23604
NCBI Accession #	NP_055141.2
NCBI GenBank Nucleotide #	NM_014326.4
UniProt Accession #	Q9UIK4; O75892; Q24JS1; E9JGM7
Molecular Weight	Observed: 42 kDa Predicted: 43 kDa
NCBI Official Full Name	death-associated protein kinase 2 isoform 1
NCBI Official Synonym Full Names	death associated protein kinase 2
NCBI Official Symbol	DAPK2
NCBI Official Synonym Symbols	DRP1; DRP-1
NCBI Protein Information	death-associated protein kinase 2
UniProt Protein Name	Death-associated protein kinase 2

UniProt Gene Name	DAPK2
UniProt Synonym Gene Names	DAP kinase 2; DRP-1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/dapk2-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/327416>