

Rabbit DAPK3 Polyclonal Antibody | anti-DAPK3 antibody

DAPK3 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327348	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

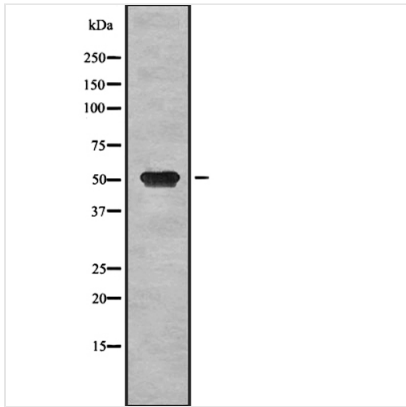
PRODUCT SYNONYMS

DAPK3; Polyclonal Antibody; DAPK3 Antibody; DAP kinase 3; DAP like kinase; DAP-like kinase; Dapk 3; DAPK3_HUMAN; Death associated kinase 3; Death associated protein kinase 3; Death-associated protein kinase 3; Dlk; EC 2.7.11.1; FLJ36473; MYPT1 kinase; ZIP; ZIP kinase; ZIP kinase isoform; ZIP-kinase; ZIPK; zipper-interacting protein kinase; anti-DAPK3 antibody

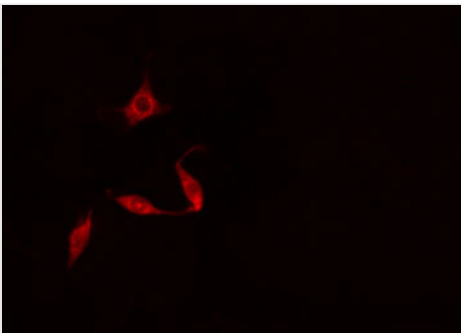
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	DAPK3 antibody detects endogenous levels of total DAPK3
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	454
Applicable Applications for anti-DAPK3 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human DAPK3
Subcellular Location	Nucleus. Cytoplasm. Nucleus > PML Body. Relocates to the cytoplasm on binding PAWR where the complex appears to interact with actin filaments (By similarity). Localizes to promyelocytic leukemia protein nuclear bodies (PML-NBs). Associates to centromeres from prophase to anaphase.
Tissue Specificity	Widely expressed. Isoform 1 and isoform 2 are expressed in the bladder smooth muscle.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Dog, Chicken
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Dog (100%), Chicken (89%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of DAPK3 using Jurkat whole lysates.



IF (Immunofluorescence)
AAA327348 staining HuvEc cells 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) antibody, diluted at 1/600, was used as secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-DAPK3 antibody	Function: Serine/threonine kinase which is involved in the regulation of apoptosis, autophagy, transcription, translation and actin cytoskeleton reorganization. Involved in the regulation of smooth muscle contraction. Regulates both type I (caspase-dependent) apoptotic and type II (caspase-independent) autophagic cell deaths signal, depending on the cellular setting. Involved in regulation of starvation-induced autophagy. Regulates myosin phosphorylation in both smooth muscle and non-muscle cells. In smooth muscle, regulates myosin either directly by phosphorylating MYL12B and MYL9 or through inhibition of smooth muscle myosin phosphatase (SMPP1M) via phosphorylation of PPP1R12A; the inhibition of SMPP1M functions to enhance muscle responsiveness to Ca2+ and promote a contractile state. Phosphorylates MYL12B in non-muscle cells leading to reorganization of actin cytoskeleton. Isoform 2 can phosphorylate myosin, PPP1R12A and MYL12B. Overexpression leads to condensation of actin stress fibers into thick bundles. Involved in actin filament focal adhesion dynamics. The function in both reorganization of actin cytoskeleton and focal adhesion dissolution is modulated by RhoD. Positively regulates canonical Wnt/beta-catenin signaling through interaction with NLK and TCF7L2. Phosphorylates RPL13A on 'Ser-77' upon interferon-gamma activation which is causing RPL13A release from the ribosome, RPL13A association with the GAIT complex and its subsequent involvement in transcript-selective translation inhibition. Enhances transcription from AR-responsive promoters in a hormone-and kinase-dependent manner. Involved in regulation of cell cycle progression and cell proliferation. May be a tumor suppressor. Subunit Structure: Homooligomer in its kinase-active form (homotrimers and homodimers are reported); monomeric in its kinase-inactive form. Homodimerization is required for activation segment autophosphorylation (Probable). Isoform 1 and isoform 2 interact with myosin and PPP1R12A; interaction of isoform 1 with PPP1R12A is inhibited by RhoA dominant negative form. Interacts with NLK, DAXX, STAT3, RHOD (GTP-bound form) and TCP10L. Interacts with PAWR; the interaction is reported conflictingly: according to PubMed:17953487 does not interact with PAWR. Interacts with ULK1; may be a substrate of ULK1. Post-translational Modifications: The phosphorylation status is critical for kinase activity, oligomerization and intracellular localization. Phosphorylation at Thr-180, Thr-225 and Thr-265 is essential for activity. The phosphorylated form is localized in the cytoplasm promoted by phosphorylation at Thr-299; nuclear translocation or retention is maximal when it is not phosphorylated. Phosphorylation increases the trimeric form, and its dephosphorylation favors a kinase-inactive monomeric form. Both isoform 1 and isoform 2 can undergo autophosphorylation. Similarity: 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 #	4557511
NCBI GeneID	1613
NCBI Accession #	NP_001339.1
NCBI GenBank Nucleotide #	NM_001348.2
UniProt Accession #	O43293; Q05JY4; A0AVN4; B3KQE2

Molecular Weight	Observed: 53 kDa Predicted: 53 kDa
NCBI Official Full Name	death-associated protein kinase 3
NCBI Official Synonym Full Names	death associated protein kinase 3
NCBI Official Symbol	DAPK3
NCBI Official Synonym Symbols	DLK; ZIP; ZIPK
NCBI Protein Information	death-associated protein kinase 3
UniProt Protein Name	Death-associated protein kinase 3
UniProt Gene Name	DAPK3
UniProt Synonym Gene Names	ZIPK; DAP kinase 3; Dlk; ZIP-kinase

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
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