

Rabbit anti-Human, mouse Deoxyguanosine Kinase (DGUOK) Polyclonal Antibody | anti-DGUOK antibody

Deoxyguanosine Kinase (DGUOK) Antibody (N-term)

CATALOG # AAA284743	HOST Rabbit	REACTIVITY Human, mouse	APPLICATIONS ELISA, Western Blot
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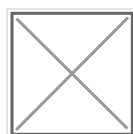
PRODUCT SYNONYMS

Deoxyguanosine Kinase (DGUOK); Polyclonal Antibody; Deoxyguanosine Kinase (DGUOK) Antibody (N-term); Deoxyguanosine kinase; mitochondrial; dGK; DGUOK; DGK; anti-DGUOK antibody

PRODUCT SPECIFICATIONS

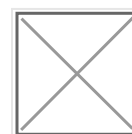
Host	Rabbit
Reactivity	Human, mouse
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This Deoxyguanosine Kinase (DGUOK) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human Deoxyguanosine Kinase (DGUOK).
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Concentration	Vial Concentration: 2 (varies by lot)
Sequence Positions	1-30
Sequence Length	89
Applicable Applications for anti-DGUOK antibody	ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



WB (Western Blot)

Western blot analysis of anti-DGUOK Pab in mouse kidney tissue lysate (35ug/lane). DGUOK (arrow) was detected using the purified Pab.



WB (Western Blot)

Western blot analysis of anti-hDGUOK-M1 Pab in 293 cell line lysate (35ug/lane). hDGUOK-M1 (arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

Related Product Information for anti-DGUOK antibody	Mitochondrial deoxyguanosine kinase (DGUOK) is required for the phosphorylation of several deoxyribonucleosides and certain purine deoxykribonucleoside analogs widely employed as antiviral and chemotherapeutic agents. Purine deoxyribonucleoside analogs are extensively used in treatment of lymphoproliferative disorders. These compounds are administered as pro-drugs, and their efficiency is dependent on intracellular phosphorylation to the corresponding triphosphates. In mammalian cells, the phosphorylation of purine deoxyribonucleosides is mediated predominantly by 2 deoxyribonucleoside kinases: cytosolic deoxycytidine kinase (DCK) and mitochondrial deoxyguanosine kinase (DGUOK also known as DGK). DGUOK expression is ubiquitous, with highest levels in muscle, brain, liver and lymphoid tissues. Defects in DGUOK are a cause of mitochondrial DNA depletion syndrome (MDS). MDS is a clinically heterogeneous group of disorders characterized by a reduction in mitochondrial DNA (mtDNA) copy number. Primary mtDNA depletion is inherited as an autosomal recessive trait and may affect single organs, typically muscle or liver, or multiple tissues. Mitochondrial DNA depletion syndromes are phenotypically heterogeneous, autosomal recessive disorders characterized by tissue-specific reduction in mtDNA copy number. Affected individuals with the hepatocerebral form of mtDNA depletion syndrome have early progressive liver failure and neurologic abnormalities, hypoglycemia, and increased lactate in body fluids.
Product Categories/Family for anti-DGUOK antibody	Signal Transduction

NCBI AND UNIPROT INFORMATION

NCBI GI #	18426967
NCBI GeneID	1716
NCBI Accession #	NP_550438.1; NP_550440.1
NCBI GenBank Nucleotide #	NM_080916.2
UniProt Accession #	Q16854; P78532; Q16759; Q4ZG09; Q7L1W9; Q96BC1
Molecular Weight	32056
NCBI Official Full Name	deoxyguanosine kinase, mitochondrial isoform a
NCBI Official Synonym Full Names	deoxyguanosine kinase
NCBI Official Symbol	DGUOK
NCBI Official Synonym Symbols	dGK; MTDPS3
NCBI Protein Information	deoxyguanosine kinase, mitochondrial
UniProt Protein Name	Deoxyguanosine kinase, mitochondrial
UniProt Gene Name	DGUOK
UniProt Synonym Gene Names	DGK; dGK
UniProt Entry Name	DGUOK_HUMAN

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/deoxyguanosine-kinase-dguok-antibody-western-blot-elisa/284743>