



# DHA Kinase Polyclonal Antibody

<b>Catalog No</b>	BYab-14730
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse;Rat
<b>Applications</b>	WB;IHC;IF;ELISA
<b>Gene Name</b>	DAK
<b>Protein Name</b>	Bifunctional ATP-dependent dihydroxyacetone kinase/FAD-AMP lyase
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human DAK. AA range:91-140
<b>Specificity</b>	DHA Kinase Polyclonal Antibody detects endogenous levels of DHA Kinase protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	WB: 1/500 - 1/2000. ELISA: 1/20000.. IF 1:50-200
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	DAK; Bifunctional ATP-dependent dihydroxyacetone kinase/FAD-AMP lyase; cyclizing
<b>Observed Band</b>	59kD
<b>Cell Pathway</b>	nucleus,cytosol,extracellular exosome,
<b>Tissue Specificity</b>	Detected in erythrocytes (at protein level).
<b>Function</b>	catalytic activity:ATP + glycerone = ADP + glycerone phosphate.,catalytic activity:FAD = AMP + riboflavin cyclic-4',5'-phosphate.,cofactor:Magnesium.,cofactor:Manganese or cobalt; for FAD-AMP lyase activity.,enzyme regulation:Each activity is inhibited by the substrate(s) of the other.,function:Catalyzes both the phosphorylation of dihydroxyacetone and the splitting of ribonucleoside diphosphate-X compounds among which FAD is the best substrate.,similarity:Belongs to the dihydroxyacetone kinase (DAK) family.,similarity:Contains 1 DAK1 (dihydroxyacetone kinase subunit 1) domain.,similarity:Contains 1 DAK2 (dihydroxyacetone kinase subunit 2) domain.,subunit:Homodimer.,

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**Background**

This gene is a member of the family of dihydroxyacetone kinases, which have a protein structure distinct from other kinases. The product of this gene phosphorylates dihydroxyacetone, and also catalyzes the formation of riboflavin 4&apos;5&apos;-phosphate (aka cyclin FMN) from FAD. Several alternatively spliced transcript variants have been identified, but the full-length nature of only one has been determined. [provided by RefSeq, Jul 2008],

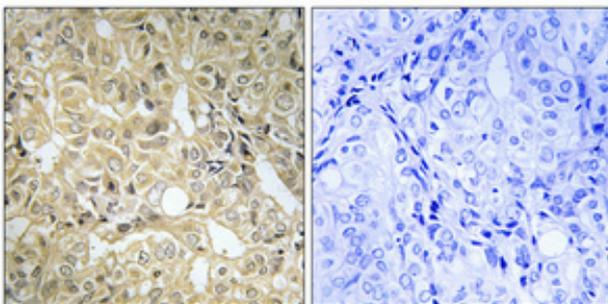
**matters needing attention**

Avoid repeated freezing and thawing!

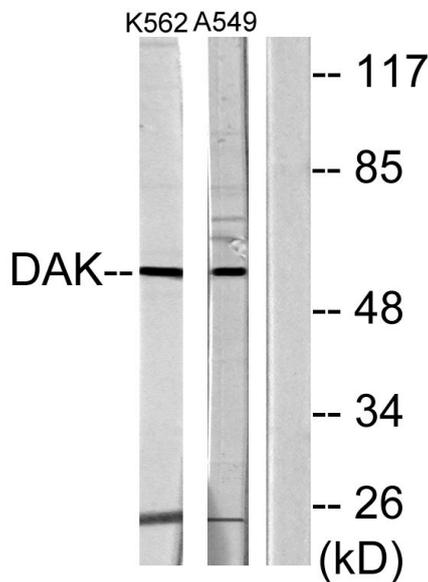
**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

**Products Images**



Immunohistochemical analysis of paraffin-embedded Human prostate cancer. Antibody was diluted at 1:100(4° overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negative contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.



Western blot analysis of lysates from K562 and A549 cells, using DAK Antibody. The lane on the right is blocked with the synthesized peptide.