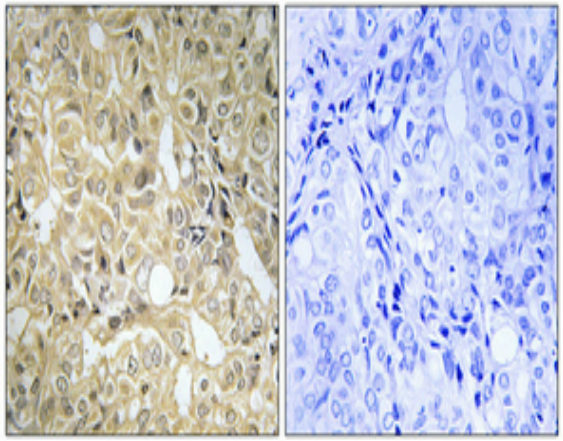
Best Tools for immunology Research

DHA Kinase Polyclonal Antibody

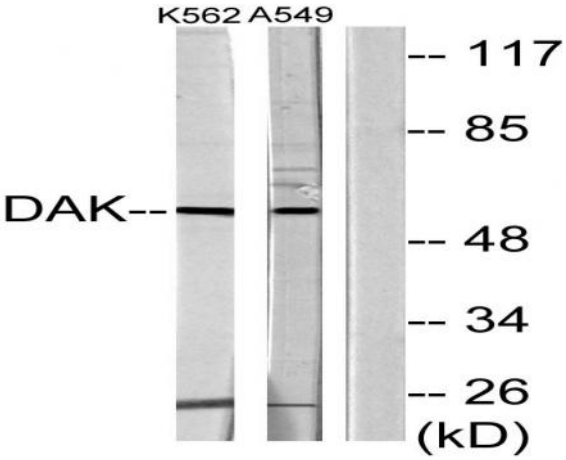
Catalog No :	YT1341
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	DHA Kinase
Fields :	>>Fructose and mannose metabolism;>>Glycerolipid metabolism;>>Metabolic pathways;>>Carbon metabolism;>>RIG-I-like receptor signaling pathway
Gene Name :	DAK
Protein Name :	Bifunctional ATP-dependent dihydroxyacetone kinase/FAD-AMP lyase
Human Gene Id :	26007
Human Swiss Prot No :	Q3LXA3
Mouse Gene Id :	225913
Mouse Swiss Prot No :	Q8VC30
Rat Gene Id :	361730
Rat Swiss Prot No :	Q4KLZ6
Immunogen :	The antiserum was produced against synthesized peptide derived from human DAK. AA range:91-140
Specificity :	DHA Kinase Polyclonal Antibody detects endogenous levels of DHA Kinase protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:200 - 1:1000. ELISA: 1:20000.. IF 1:20-50

Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	59kD
Cell Pathway :	Glycerolipid metabolism;RIG-I-like receptor;
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',5'-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],
Function :	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.,
Subcellular Location :	nucleus,cytosol,extracellular exosome,
Expression :	Detected in erythrocytes (at protein level).

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. Negetive 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.