



DHA Kinase Monoclonal Antibody

Catalog No	BYmab-14730
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	DAK
Protein Name	Bifunctional ATP-dependent dihydroxyacetone kinase/FAD-AMP lyase
Immunogen	The antiserum was produced against synthesized peptide derived from human DAK. AA range:91-140
Specificity	DHA Kinase Monoclonal Antibody detects endogenous levels of DHA Kinase protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	DAK; Bifunctional ATP-dependent dihydroxyacetone kinase/FAD-AMP lyase; cyclizing
Observed Band	59kD
Cell Pathway	nucleus,cytosol,extracellular exosome,
Tissue Specificity	Detected in erythrocytes (at protein level).
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.,

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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',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],

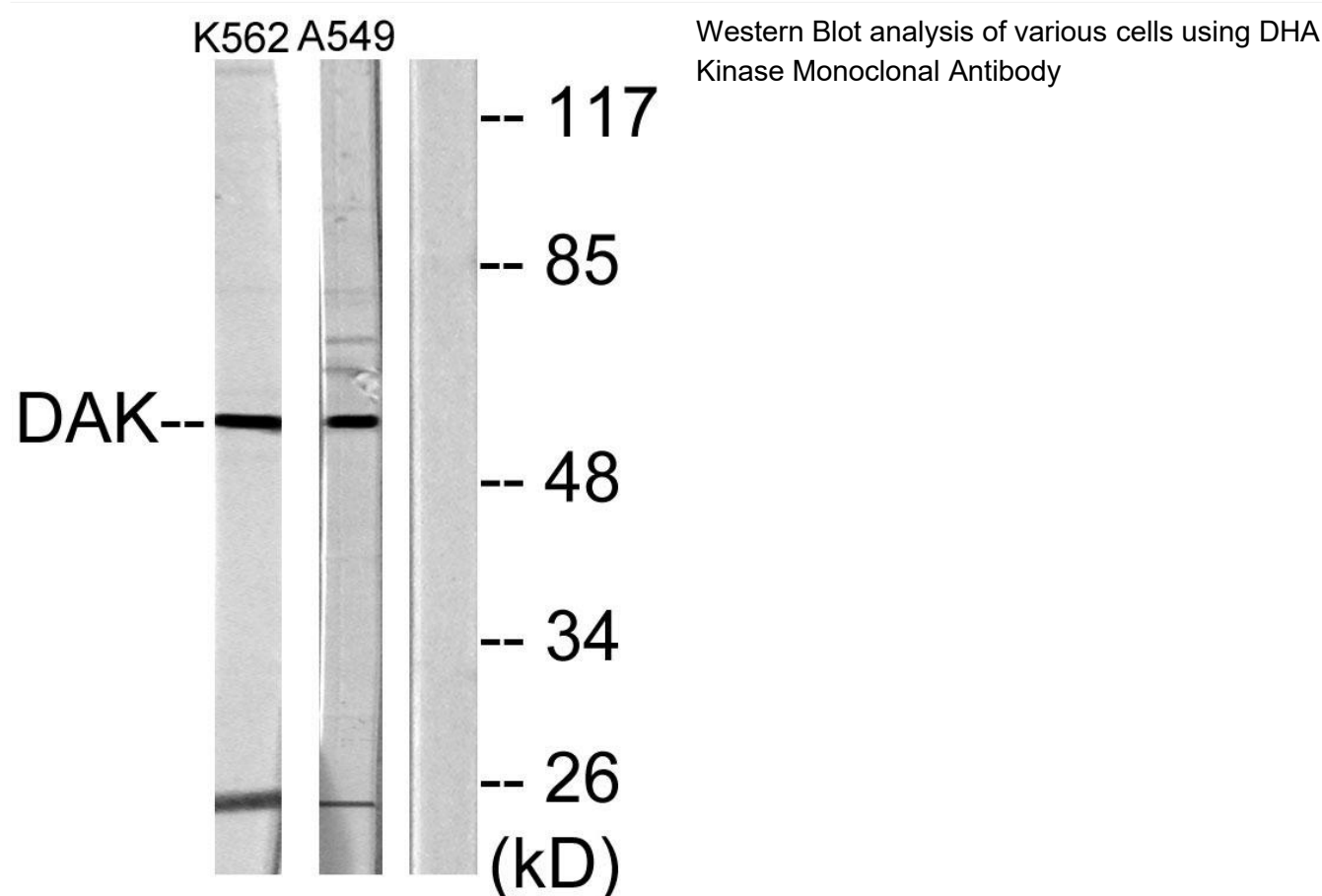
matters needing attention

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



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