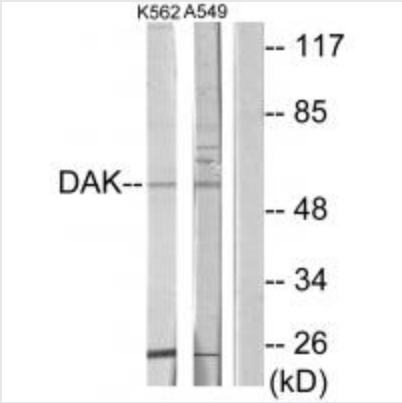
DAK Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	DAK, Polyclonal Antibody
Full Product Name	DAK Antibody
Product Gene Name	anti-DAK antibody
Product Synonym Names	Dihydroxyacetone kinase; EC 2.7.1.29; Glycerone kinase; DHA kinase; DAK
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration	1.0 mg/ml (lot specific)
Specificity	The antibody detects endogenous levels of total DAK protein.
Preparation and Storage	Store at -20 degree C
Molecular Weight	54,793 Da
OMIM	615844
3D Structure	ModBase 3D Structure for Q3LXA3
Immunogen Type	Peptide
Immunogen Description	Synthesized peptide derived from internal of human DAK.
Target Name	DAK
Product Categories/Family for anti-DAK antibody	Total protein Ab
Applications Tested/Suitable for anti-DAK antibody	Western Blot (WB)
Application Notes for anti-DAK antibody	Western blotting: 1:500~1:3000
Related Product Information for anti-DAK antibody	Catalyzes both the phosphorylation of dihydroxyacetone and of glyceraldehyde, and the splitting of ribonucleoside diphosphate-X compounds among which FAD is the best substrate.Ota T., Nat. Genet. 36:40-45(2004).Totoki Y., Submitted (APR-2005) to the EMBL/GenBank/DDBJ databases.The MGC Project Team, Genome Res. 14:2121-2127(2004)
Other Notes	Small volumes of anti-DAK antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for DAK purchase	MBS9407046 is an antibody targeting DAK. Also known as DAK Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-DAK antibody
Western blot analysis of extracts from K562 cells and A549 cells, using DAK antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DAK. It may not necessarily be applicable to this product.

NCBI GI #	20149621
NCBI GeneID	26007
NCBI Accession #	NP_056348.2
UniProt Primary Accession #	Q3LXA3
UniProt Secondary Accession #	Q2L9C1; Q53EQ9; Q9BVA7; Q9H895
UniProt Related Accession #	Q3LXA3
GenBank Nucleotide #	NM_015533.3
NCBI Official Full Name	bifunctional ATP-dependent dihydroxyacetone kinase/FAD-AMP lyase (cyclizing)
NCBI Official Synonym Full Names	triokinase/FMN cyclase
NCBI Official Symbol	TKFC
NCBI Official Synonym Symbols	DAK; NET45
UniProt Protein Name	Triokinase/FMN cyclase
UniProt Synonym Protein Names	Bifunctional ATP-dependent dihydroxyacetone kinase/FAD-AMP lyase (cyclizing)Including the following 2 domains:ATP-dependent dihydroxyacetone kinase (EC:2.7.1.28, EC:2.7.1.29); DHA kinaseAlternative name(s):Glycerone kinase; Triokinase; Triose kinase
Protein Family	Dihydroxyacetone kinase
UniProt Gene Name	TKFC
UniProt Synonym Gene Names	DHA kinase
UniProt Entry Name	TKFC_HUMAN
NCBI Protein Information	bifunctional ATP-dependent dihydroxyacetone kinase/FAD-AMP lyase (cyclizing)
NCBI Summary for DAK	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]

UniProt Comments for DAK	DAK: Catalyzes both the phosphorylation of dihydroxyacetone and of glyceraldehyde, and the splitting of ribonucleoside diphosphate-X compounds among which FAD is the best substrate. Belongs to the dihydroxyacetone kinase (DAK) family. Protein type: Kinase, other; EC 2.7.1.28; EC 2.7.1.29; EC 4.6.1.15; Lipid Metabolism - glycerolipid Chromosomal Location of Human Ortholog: 11q12.2 Cellular Component: nucleus; cytosol Molecular Function: metal ion binding; FAD-AMP lyase (cyclizing) activity; triokinase activity; ATP binding; glycerone kinase activity Biological Process: glycerol metabolic process; carbohydrate phosphorylation; innate immune response; cellular carbohydrate metabolic process; regulation of innate immune response
Research Articles on DAK	**1.** The peptide fragment (m/z 520.3) of DAK is a promising biomarker to guide timing of antiviral treatment and to avoid liver biopsy in compensated chronic hepatitis B patients.
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