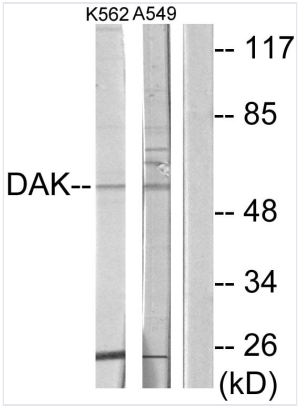
DAK Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	DAK, Polyclonal Antibody
Full Product Name	DAK Antibody
Product Gene Name	anti-DAK antibody
Product Synonym Names	DHA kinase; Dihydroxyacetone kinase; Glycerone kinase
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	Purified from rabbit antiserum by affinity-chromatography using immunogen.
Concentration	1 mg/ml (lot specific)
Specificity	DAK Antibody detects endogenous levels of total DAK protein.
Preparation and Storage	Stable at -20 degree C for at least 1 year.
Molecular Weight	58 kDa
OMIM	DQ138290 mRNA
3D Structure	ModBase 3D Structure for Q3LXA3
Target Modification	Unmodified/Total
Immunogen	The antiserum was produced against synthesized peptide derived from human DAK.
Immunogen Range	91-140
Applications Tested/Suitable for anti-DAK antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-DAK antibody	WB: 1:500~1:1000 ELISA: 1:20000
Related Product Information for anti-DAK antibody	MBS9505277 is an antibody targeting DAK. Also known as DAK Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
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.



Western Blot (WB) of anti-DAK antibody
Western blot analysis of lysates from K562 and A549 cells, using DAK Antibody. The lane on the right is blocked with the synthesized peptide.

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	triokinase/FMN cyclase isoform b
NCBI Official Synonym Full Names	triokinase and 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
NCBI Protein Information	triokinase/FMN cyclase
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 found for this gene. [provided by RefSeq, Jun 2017]
UniProt Comments for 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. Represses IFIH1-mediated cellular antiviral response (PubMed:17600090).

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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