PDK1 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	PDK1, Monoclonal Antibody
Full Product Name	PDK1 (Pyruvate Dehydrogenase Kinase, Isozyme 1) (MaxLight 750)
Product Gene Name	anti-PDK1 antibody
Product Synonym Names	Pyruvate Dehydrogenase Kinase; Isozyme 1
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	30
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified
Specificity	Recognizes PDK1.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Immunogen	PDK1 (AAH39158, 203aa-302aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	GGKGKGSPSHRKHIGSINPNCNVLEVIKDGYENARRLCDLYYINSPELELEELNAKSPGQPIQVVYVPSHLYHMVFELFKNAMRATMEHHANRGVYPPIQ
Conjugate	MaxLight750
Product Categories/Family for anti-PDK1 antibody	Antibodies; Enzymes; Dehydrogenase
Applications Tested/Suitable for anti-PDK1 antibody	FLISA
Application Notes for anti-PDK1 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-PDK1 antibody	Pyruvate dehydrogenase (PDH) is a mitochondrial multienzyme complex that catalyzes the oxidative decarboxylation of pyruvate and is one of the major enzymes responsible for the regulation of homeostasis of carbohydrate fuels in mammals. The enzymatic activity is regulated by a phosphorylation/dephosphorylation cycle. Phosphorylation of PDH by a specific pyruvate dehydrogenase kinase (PDK) results in inactivation. [provided by RefSeq]
Other Notes	Small volumes of anti-PDK1 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 PDK1 purchase	MBS6239887 is an antibody targeting PDK1. Also known as PDK1 (Pyruvate Dehydrogenase Kinase, Isozyme 1) (MaxLight 750). Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PDK1. It may not necessarily be applicable to this product.

NCBI GI #	24660128
NCBI GeneID	5163
NCBI Accession #	AAH39158
UniProt Related Accession #	Q15118
NCBI Official Full Name	PDK1 protein
NCBI Official Synonym Full Names	pyruvate dehydrogenase kinase 1
NCBI Official Symbol	PDK1
Protein Family	[Pyruvate dehydrogenase
NCBI Protein Information	[Pyruvate dehydrogenase (acetyl-transferring)] kinase isozyme 1, mitochondrial; pyruvate dehydrogenase (acetyl-transferring) kinase isozyme 1, mitochondrial
NCBI Summary for PDK1	Pyruvate dehydrogenase (PDH) is a mitochondrial multienzyme complex that catalyzes the oxidative decarboxylation of pyruvate and is one of the major enzymes responsible for the regulation of homeostasis of carbohydrate fuels in mammals. The enzymatic activity is regulated by a phosphorylation/dephosphorylation cycle. Phosphorylation of PDH by a specific pyruvate dehydrogenase kinase (PDK) results in inactivation. Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jun 2013]
Research Articles on PDK1	**1.** Ku80 promoted melanoma growth and regulated antitumor activity of melatonin by targeting HIF1-alpha dependent PDK-1 signaling pathway.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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