

## Anti-Mitochondrial Pyruvate dehydrogenase kinase 1/PDK1 Antibody Picoband® Fluoro488 Conjugated

Catalog Number: PA1993-Fluoro488

### About PDK1

PDK1 (Pyruvate Dehydrogenase Kinase Isoenzyme 1), is an enzyme that in humans is encoded by the PDK1 gene. To find human PDKs, Gudi et al. (1995) used oligonucleotide primers to screen a human liver cDNA library by PCR. They identified and reported the deduced amino acid sequences of PDK1, PDK2, and PDK3. The human PDK1 gene encodes a protein with a predicted molecular mass of 49,244 Da that shares 93% identity with that of the rat PDK1 gene. Northern blot analysis showed that the PDK1 message was expressed predominantly in the heart.

### Overview

Product Name	Anti-Mitochondrial Pyruvate dehydrogenase kinase 1/PDK1 Antibody Picoband® Fluoro488 Conjugated
Reactive Species	Human, Rat
Application	Flow Cytometry
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	Q15118

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Mitochondrial Pyruvate dehydrogenase kinase 1, different from the related rat sequence by one amino acid, and from the related mouse sequence by two amino acids.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Fluoro488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm

Suggested Dilutions

Flow Cytometry, Optimal dilutions should be determined by end users.

## 2 Publications Citing This Product

1. PubMed ID: 19816521, Xu K, Ding Q, Fang Z, Zheng J, Gao P, Lu Y, Zhang Y. Cancer Gene Ther. 2010 Mar;17(3):212-22. Doi: 10.1038/Cgt.2009.66. Epub 2009 Oct 9. Silencing Of Hif-1Alpha Suppresses Tumorigenicity Of Renal Cell Carcinoma Through Induction Of Apoptosis.
2. PubMed ID: 29845188, lncRNA Ftx promotes aerobic glycolysis and tumor progression through the PPAR $\gamma$  pathway in hepatocellular carcinoma

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