

PDK4 Antibody

Catalog No: #31258

Package Size: #31258-1 50ul #31258-2 100ul

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Description

Product Name	PDK4 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Applications	ELISA WB IHC
Species Reactivity	Human;Mouse;Rat
Specificity	The antibody detects endogenous level of total PDK4 protein.
Immunogen Type	Peptide-KLH
Immunogen Description	Synthetic peptide corresponding to a region derived from 101-113 amino acids of Human pyruvate dehydrogenase kinase, isozyme 4
Conjugates	Unconjugated
Target Name	PDK4
Other Names	Pyruvate dehydrogenase kinase, isozyme 4
Accession No.	Genbank No.: NP_002603
Formulation	Supplied at 1.6mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.3, 0.05% sodium azide and 50% glycerol.
Storage	Store at -20°C/1 year

Application Details

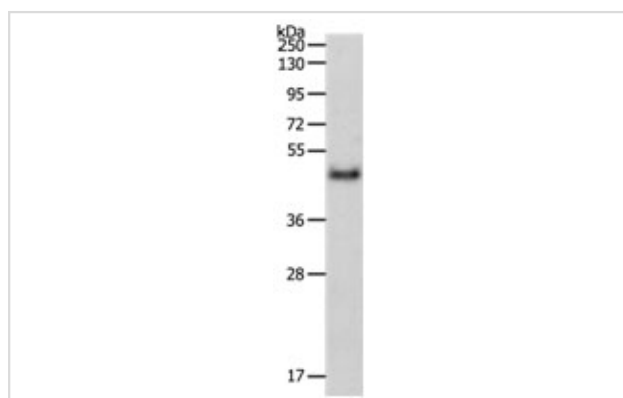
Predicted MW: 46kd

ELISA: 1:1000-1:5000

Western blotting: 1:500-1:2000

Immunohistochemistry: 1:50-1:200

Images



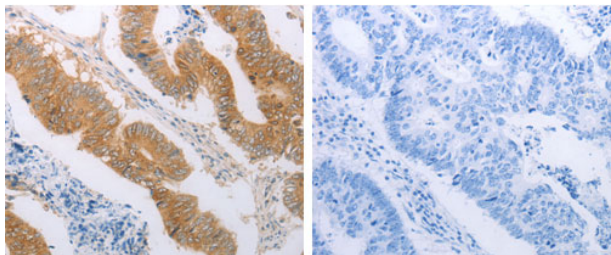
Gel: 10%SDS-PAGE

Lysate: 60 µg Mouse pancreas tissue lysate

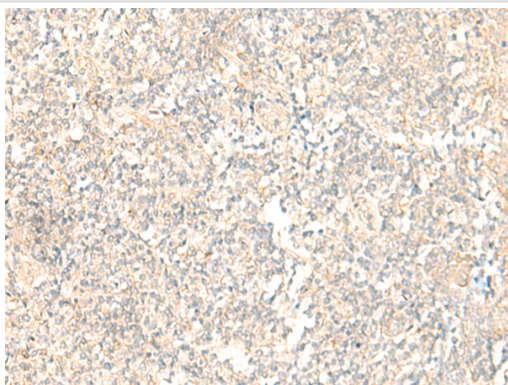
Primary antibody: 1/700 dilution

Secondary antibody: Goat anti Rabbit IgG - H&L (HRP) at 1/10000 dilution

Exposure time: 2 minutes



The image on the left is immunohistochemistry of paraffin-embedded human colon cancer tissue using 31258 (PDK4 Antibody) at dilution 1/50, on the right is treated with the synthetic peptide.



Immunohistochemistry of paraffin-embedded Human tonsil tissue using PDK4 antibody at dilution of 1:50

Background

This gene is a member of the PDK/BCKDK protein kinase family and encodes a mitochondrial protein with a histidine kinase domain. This protein is located in the matrix of the mitochondria and inhibits the pyruvate dehydrogenase complex by phosphorylating one of its subunits, thereby contributing to the regulation of glucose metabolism. Expression of this gene is regulated by glucocorticoids, retinoic acid and insulin.

Published Papers

el at., Targeting Lactate Dehydrogenase A with Catechin Resensitizes SNU620/5FU Gastric Cancer Cells to 5-Fluorouracil. In Int J Mol Sci on 2021 May 20 by Jung Ho Han, MinJeong Kim,et al..PMID:34065602, , (2021)

[PMID:34065602](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.