

For Research Use Only

PDK1 Polyclonal antibody, PBS Only

Catalog Number: 18262-1-PBS

Featured Product



Basic Information

Catalog Number:

18262-1-PBS

Size:

100ug, Concentration: 1 mg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG13121

GenBank Accession Number:

BC039158

GeneID (NCBI):

5163

UNIPROT ID:

Q15118

Full Name:

pyruvate dehydrogenase kinase, isozyme 1

Calculated MW:

436 aa, 49 kDa

Observed MW:

46-55 kDa

Purification Method:

Antigen affinity purification

Applications

Tested Applications:

WB, IHC, IP, Indirect ELISA

Species Specificity:

human, mouse, rat

Background Information

PDK1(pyruvate dehydrogenase kinase isoform 1) is also named as PDHK1 and belongs to the PDK/BCKDK protein kinase family. It inhibits the mitochondrial pyruvate dehydrogenase complex by phosphorylation of the E1 alpha subunit, thus contributing to the regulation of glucose metabolism (PMID:17683942). Starvation increases islet PDK activity (PMID:11723055). PDK1 has 2 isoforms with the MW of 49 and 52 kD, and a 28aa-transit-peptide in the N-terminal can be removed in the mature form. This antibody is specific to PDK1.

Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS only, pH7.3

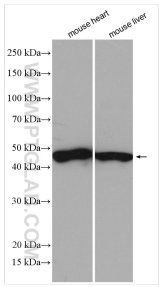
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

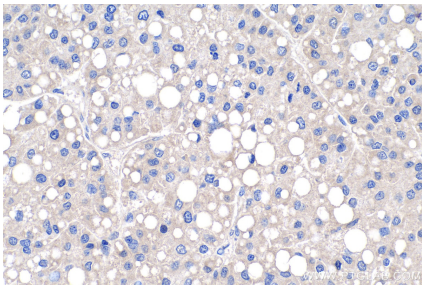
E: proteintech@ptglab.com
W: ptglab.com

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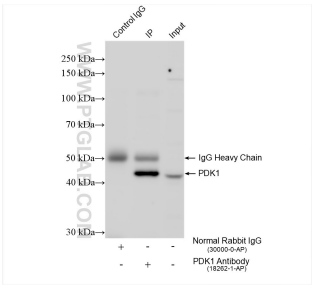
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 18262-1-AP (PDK1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 18262-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 18262-1-AP (PDK1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 18262-1-PBS in a different storage buffer formulation.



IP result of anti-PDK1 (IP:18262-1-AP, 4ug; Detection:18262-1-AP 1:3000) with SiHa cells lysate 1520 ug. This data was developed using the same antibody clone with 18262-1-PBS in a different storage buffer formulation.