

For Research Use Only

PPA2 Polyclonal antibody

Catalog Number: 16662-1-AP

1 Publications



Basic Information

Catalog Number:

16662-1-AP

Size:

150ul, Concentration: 350 ug/ml by Nanodrop and 200 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG10138

GenBank Accession Number:

BC057219

GeneID (NCBI):

27068

UNIPROT ID:

Q9H2U2

Full Name:

pyrophosphatase (inorganic) 2

Calculated MW:

305aa, 35 kDa; 334aa, 38 kDa

Observed MW:

32-40 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

IHC

Species Specificity:

human, mouse, rat

Cited Species:

human

Positive Controls:

WB : mouse heart tissue, mouse kidney tissue, mouse liver tissue, rat heart tissue

IHC : human liver cancer tissue, human lung cancer tissue

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

Pyrophosphatase 2 (PPA2) is a mitochondrial-located pyrophosphatase (PPase) that hydrolyzes inorganic pyrophosphate (PPi), generated by numerous nucleotide-dependent reactions, into two orthophosphate molecules (PMID: 34400813). PPA2 is a cardiomyopathy-associated protein, which has a greater physiological importance in mitochondrial function (PMID: 27523597).

Notable Publications

Author	Pubmed ID	Journal	Application
Jia-Ning Zhang	39176095	Front Immunol	IHC

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

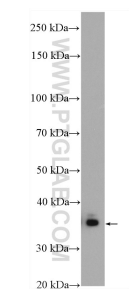
For technical support and original validation data for this product please contact:

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

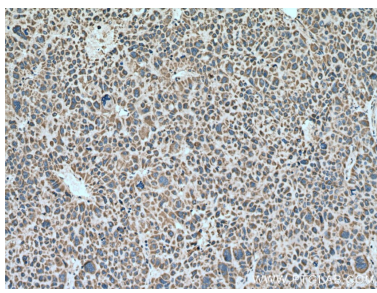
E: proteintech@ptglab.com
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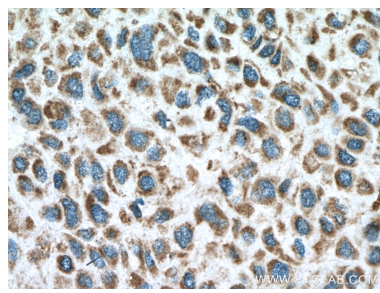
Selected Validation Data



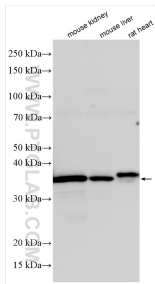
mouse heart tissue were subjected to SDS PAGE followed by western blot with 16662-1-AP (PPA2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 16662-1-AP (PPA2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 16662-1-AP (PPA2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 16662-1-AP (PPA2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.