Palladin Polyclonal antibody
Catalog Number: 10853-1-AP

Basic Information
Catalog Number: 10853-1-AP
Size: 150ul, Concentration: 300 μg/ml by Nanodrop and 213 μg/ml by Bradford method using BSA as the standard
Source: Rabbit
Isotype: IgG
Immunogen Catalog Number: AG1288

GenBank Accession Number: BC013867
GeneID (NCBI): 23022
Full Name: palladin, cytoskeletal associated protein
Calculated MW: 1383 aa, 151 kDa
Observed MW: 95 kDa, 140 kDa

Purification Method: Antigen affinity purification
Recommended Dilutions:
WB: 1:1000-1:4000
IP: 0.5-4.0 μg for IP and 1:1000-1:4000 for WB
IHC: 1:50-1:500
IF: 1:20-1:200

Applications
Tested Applications: FC, IF, IHC, IP, WB, ELISA
Cited Applications: COIP, IF, IHC, IP, WB
Species Specificity: human, mouse
Cited Species: human, mouse, rat

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
Palladin is an actin associated protein serving as a cytoskeleton scaffold, and actin cross linker, localizing at stress fibers, focal adhesions, and other actin based structures. Palladin exists as multiple isoforms through alternative transcription initiation sites and splicing. There are three major isoforms (200, 140, 90-92 kDa) and multiple minor isoforms. Different palladin isoforms are expressed in a tissue-specific pattern during development and in adult organs; the 200 kDa isoform is predominantly expressed in the heart, skeletal muscle, testis and bone; the 140 kDa isoform is widely expressed with the exception of liver, muscle, and skin; the 90-92 kDa isoform is broadly expressed in embryonic tissues and highly expressed in adult smooth muscle tissues (21455759). Recently overexpression of palladin has been linked to the promoted invasive motility in several types of cancers (18978809, 22291919). The 85-90 kDa palladin isoform has been observed predominantly expressed in pancreatic ductal adenocarcinoma (PDA) while a 65 kDa isoform is expressed in normal pancreas and non-PDA tumors (20436683). This antibody, generated against the fragment 999-1383aa of palladin, recognizes most isoforms of this protein, except isoform 6.

Notable Publications
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<th>Author</th>
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<tr>
<td>Sheng Hu</td>
<td>36038029</td>
<td>Neurosci Lett</td>
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<td>Avital Gilam</td>
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<td>Xiang Zhang</td>
<td>28924223</td>
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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
W: ptglab.com

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A549 cells (shcontrol and shRNA of PALLD) were subjected to SDS PAGE followed by western blot with 10853-1-AP (PALLD antibody) at dilution of 1:2000.


HeLa cells were subjected to SDS PAGE followed by western blot with 10853-1-AP (Palladin antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.


Immunofluorescent analysis of HeLa cells using 10853-1-AP (Palladin antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

1X10^6 HeLa cells were stained with 0.2ug PALLD,palladin antibody (10853-1-AP, red) and control antibody (blue). Cells were fixed with 4% PFA and permeabilized with 0.1% Triton X-100. Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.