DRP1 (C-terminal) Polyclonal ANTIBODY

Catalog Number: 12957-1-AP

Basic Information

Catalog Number: 12957-1-AP
Size: 150μL, Concentration: 160 μg/ml by Bradford method using BSA as the standard;
Source: Rabbit
Isotype: IgG
Immunogen Catalog Number: AG3644
GenBank Accession Number: BC024590
GeneID (NCBI): 10059
Full Name: dynamin 1-like
Calculated MW: 710 aa, 79 kDa
Observed MW: 75-80 kDa
Purification Method: Antigen affinity purification
Recommended Dilutions:
WB 1:1000-1:4000
IP 0.5-4.0 μg for IP and 1:500-1:2000 for WB
IHC 1:50-1:500
IF 1:50-1:500

Applications

Tested Applications: IF, IHC, IP, WB, ELISA
Cited Applications: IF, IHC, WB
Species Specificity: human, mouse
Cited Species: chicken, hamster, human, monkey, mouse
Positive Controls:
WB: mouse brain tissue, Transfected HEK-293 cells, NIH/3T3 cells, HepG2 cells, HeLa cells
IP: mouse brain tissue,
IHC: mouse cerebellum tissue,
IF: HeLa cells,

Background Information

DNM1L (Dynamin-1-like protein), also known as dynamin-related protein 1 (DRP1), belongs to the dynamin family of large GTPases that mediate membrane remodeling during a variety of cellular processes. DNM1L has an important role in the division of growing mitochondria and peroxisomes and also mediates outer mitochondrial membrane fission in mammalian cells. DNM1L is ubiquitously expressed with abundant expression in skeletal muscle, heart, kidney and brain. Variable isoforms of DNM1L have been reported in a tissue-specific manner due to the alternative splicing.

Notable Publications

<table>
<thead>
<tr>
<th>Author</th>
<th>Pubmed ID</th>
<th>Journal</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jinghua Du</td>
<td>29158819</td>
<td>Theranostics</td>
<td>WB</td>
</tr>
<tr>
<td>Siwen Li</td>
<td>28957766</td>
<td>Chemosphere</td>
<td>WB</td>
</tr>
<tr>
<td>Jing Yuan</td>
<td>31543403</td>
<td>Cell Metab</td>
<td>WB</td>
</tr>
</tbody>
</table>

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

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

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
Various lysates were subjected to SDS PAGE followed by western blot with 12957-1-AP (DRP1 (C-terminal) antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.

WB result of DRP1 (C-terminal) antibody (12957-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-DRP1 (C-terminal) transfected HeLa cells.

Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 12957-1-AP (DRP1 (C-terminal) 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 mouse cerebellum tissue slide using 12957-1-AP (DRP1 (C-terminal) antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using 12957-1-AP (DRP1 (C-terminal) antibody) at dilution of 1:50 and CoraLite488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

IP result of anti-DRP1 (C-terminal)(IP:12957-1-AP, 4ug; Detection:12957-1-AP 1:1000) with mouse brain tissue lysate 2400 ug.