For Research Use Only

PARL Polyclonal antibody

Catalog Number:26679-1-AP 9 Publications

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Basic Information

Catalog Number:
26679-1-AP

Size:
150ul , Concentration: 700 ug/ml by Nanodrop and 467 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG24789

GenBank Accession Number:
BC014058

GeneID (NCBI):
55486

UNIPROT ID:
Q9H300

Full Name:
presenilin associated, rhomboid-like

Calculated MW:
42 kDa

Observed MW:
36-42 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:
WB, IHC

Species Specificity:
human, mouse

Cited Species:
human, mouse

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

Positive Controls:

WB : 3T3-L1 cells, HEK-293 cells, HeLa cells, Neuro-2a cells

IHC : human prostate cancer tissue, human liver cancer tissue

Background Information

PARL (Presenilin associated rhomboid like), is a member of the rhomboid family of intramembrane serine proteases that is localized to the inner mitochondrial membrane. PARL has 2 isoforms produced by alternative splicing with the molecular mass of 42 kDa and 37 kDa. PARL regulates mitochondrial remodeling and apoptosis through regulated substrate proteolysis. Proteolytic processing of PARL may result in the release of a small peptide, P-beta, which may transit to the nucleus. The self-regulated cleavage of PARL at positions 52-53 (α-site) and 77--78 (β-site) produce two cleaved forms of PARL named MAMP and PACT with the molecular mass of 36 kDa and 33 kDa respectively (PMID: 14732705, 28178523).

Notable Publications

Author	Pubmed ID	Journal	Application
Arianna F Anzmann	34314685	J Biol Chem	WB
Hao Liang	35860016	Front Pharmacol	IHC
Meiyu Cheng	35163244	Int J Mol Sci	WB

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
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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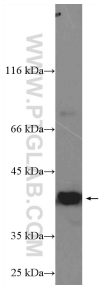
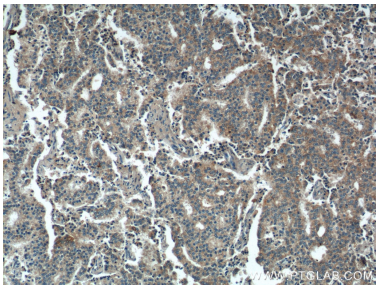
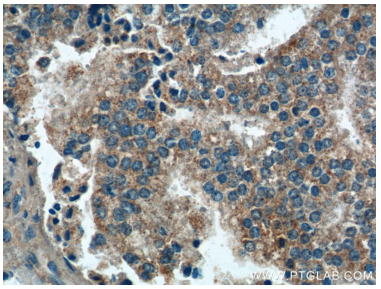
Selected Validation Data



3T3-L1 cells were subjected to SDS PAGE followed by western blot with 26679-1-AP (PARL Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 26679-1-AP (PARL Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 26679-1-AP (PARL Antibody) at dilution of 1:200 (under 40x lens).