

For Research Use Only

DRP1 (C-terminal) Recombinant antibody

Catalog Number: 81561-1-RR

Featured Product



Basic Information

Catalog Number:

81561-1-RR

Size:

100ul, Concentration: 1000 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3644

GenBank Accession Number:

BC024590

GeneID (NCBI):

10059

UNIPROT ID:

O00429

Full Name:

dynamin 1-like

Calculated MW:

736 aa, 82 kDa

Observed MW:

70-80 kDa

Purification Method:

Protein A purification

CloneNo.:

2A19

Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:500-1:2000

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), ELISA

Species Specificity:

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

Positive Controls:

WB : HeLa cells, HEK-293 cells, mouse brain tissue, A549 cells, HCT 116 cells, NIH/3T3 cells, PC-12 cells, rat brain tissue

IHC : mouse cerebellum tissue,

IF/ICC : NIH/3T3 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.

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

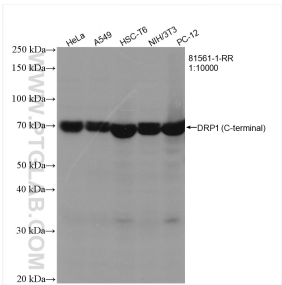
For technical support and original validation data for this product please contact:

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

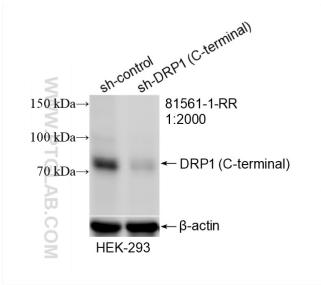
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

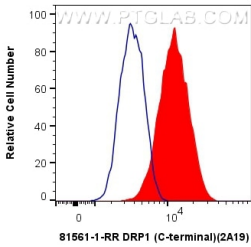
Selected Validation Data



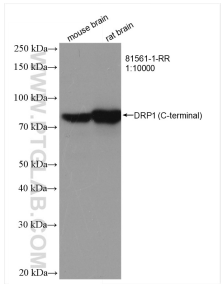
Various lysates were subjected to SDS PAGE followed by western blot with 81561-1-RR (DRP1 (C-terminal) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



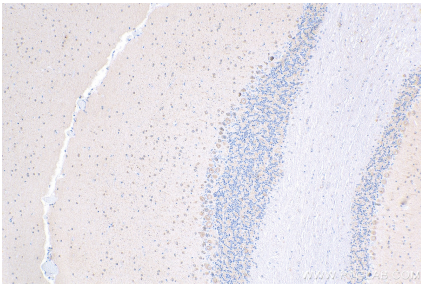
WB result of DRP1 (C-terminal) antibody (81561-1-RR; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-DRP1 (C-terminal) transfected HEK-293 cells.



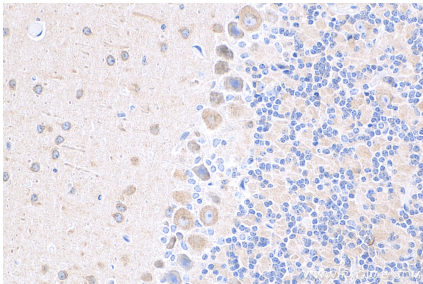
1X10⁶ HeLa cells were intracellularly stained with 0.4 ug Anti-Human DRP1 (C-terminal) (81561-1-RR, Clone:2A19) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



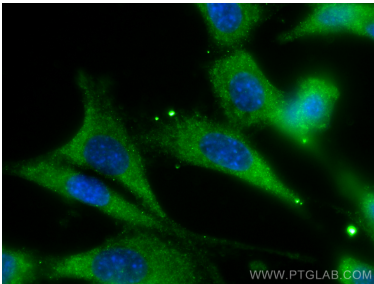
Various lysates were subjected to SDS PAGE followed by western blot with 81561-1-RR (DRP1 (C-terminal) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



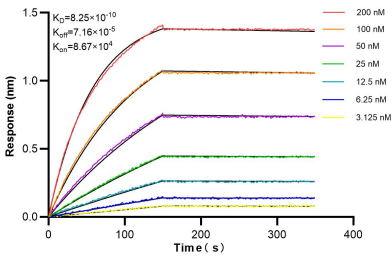
Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 81561-1-RR (DRP1 (C-terminal) antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 81561-1-RR (DRP1 (C-terminal) antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed NIH/3T3 cells using DRP1 (C-terminal) antibody (81561-1-RR, Clone: 2A19) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Biolayer interferometry (BLI) kinetic assays of 81561-1-RR against Human DRP1 (C-terminal) were performed. The affinity constant is 0.825 nM.