DRP1 (ANT0086R) Rabbit mAb

CatalogNo: ANT8049 Recombinant

Formulation: PBS,50%glycerol,0.05%Proclin 300,0.05%BSA
Quantity : 100 ug/vial

Host Species	Reactivity	Applications
• Rabbit	• Human,Mouse,Rat,	• WB,IHC,IF,IP,ELISA

MW	Isotype
• 83kD (Calculated) 83kD (Observed)	• IgG,Kappa

Recommended Dilution Ratios

IHC 1:200-1000
WB 1:1000-5000
IF 1:200-1000
ELISA 1:5000-20000
IP 1:50-200

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)

Basic Information

Clonality	Monoclonal
Clone Number	ANT0086R

Target Information

Immunogen Information Specificity

Endogenous

Gene name DNM1L

Protein Name Dynamin-1-like protein

Organism	Gene ID	UniProt ID
Human	10059;	O00429;
Mouse	74006;	Q8K1M6;
Rat	114114;	O35303;

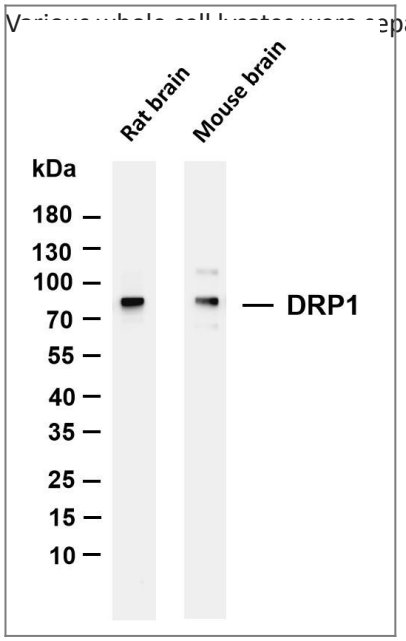
Cellular Localization Cytoplasm

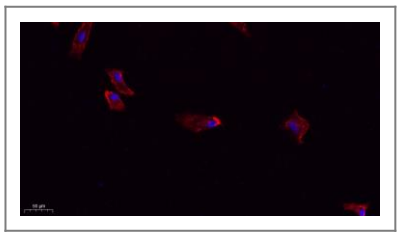
Tissue specificity Ubiquitously expressed with highest levels found in skeletal muscles, heart, kidney and brain. Isoform 1 is brain-specific. Isoform 2 and isoform 3 are predominantly expressed in testis and skeletal muscles respectively. Isoform 4 is weakly expressed in brain, heart and kidney. Isoform 5 is dominantly expressed in liver, heart and kidney. Isoform 6 is expressed in neurons.

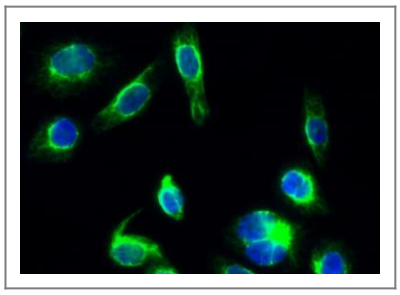
Function Catalytic activity:GTP + H(2)O = GDP + phosphate.,Function:Functions in mitochondrial and peroxisomal division probably by regulating membrane fission. Enzyme hydrolyzing GTP that oligomerizes to form ring-like structures and is able to remodel membranes. May also play a role on organelles of the secretory pathway.,miscellaneous:Isoform 1 and isoform 2 inhibits peroxisomal division when overexpressed while isoform 3 and isoform 4 have no effect.,ANTM:Phosphorylated by GSK3B.,similarity:Belongs to the dynamin family.,similarity:Contains 1 GED domain.,subcellular location:Mainly cytosolic. Also membrane-associated. Localizes to mitochondria at spots of division events. Associated with peroxisomal membranes, it is recruited in part by PEX11B. May also be associated with endoplasmic reticulum tubules and cytoplasmic vesicles and found to be perinuclear.,subunit:Homotetramer; N-terminal part binds to the C-terminal part of another DNM1L. Can self-assemble in multimeric ring-like structures. Interacts with FIS1 (By similarity). Interacts with GSK3B.,tissue specificity:Ubiquitously expressed with highest levels found in skeletal muscles, heart, kidney and brain. Isoform 1 is brain-specific while isoform 3 and isoform 4 are predominantly expressed in testis and skeletal muscles respectively. Isoform 2 is weakly expressed in brain, heart and kidney and isoform 5 is dominantly expressed in liver, heart and kidney.,

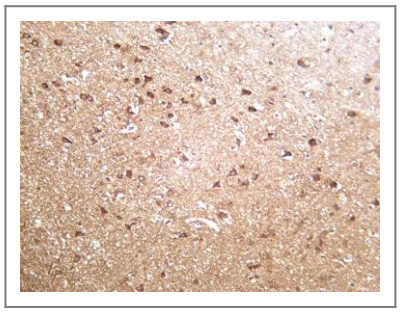
Validation Data

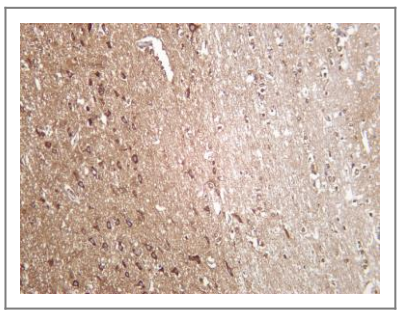
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-DRP1 (ANT0086R)











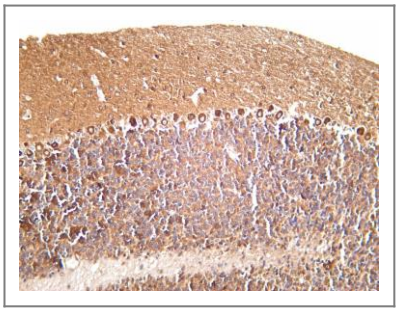
antibody. The HRPconjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: Rat brain Lane 2: Mouse brain Predicted band size: 83kDa
Observed band size: 83kDa

Immunofluorescence analysis of A549. 1,primary Antibody(red) was diluted at 1:200(4°C overnight). 2, Goat Anti Rabbit IgG (H&L) - Alexa Fluor 594 Secondary antibody was diluted at 1:1000(room temperature, 50min).3, Picture B: DAPI(blue) 10min.

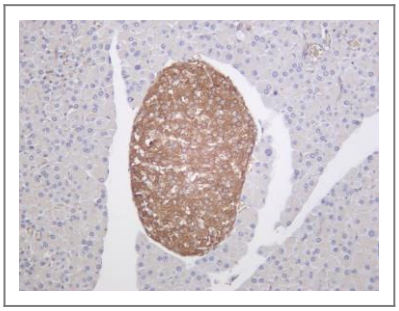
Immunofluorescence analysis of Hela cell. 1,primary Antibody(green) was diluted at 1:200(4° overnight). 2, Goat Anti Rabbit Alexa Fluor 488 Catalog:RS3211 was diluted at 1:1000(room temperature, 50min). 3 DAPI(blue) 10min.

Human brain was stained with Anti-DRP1 (ANT0086R) rabbit antibody

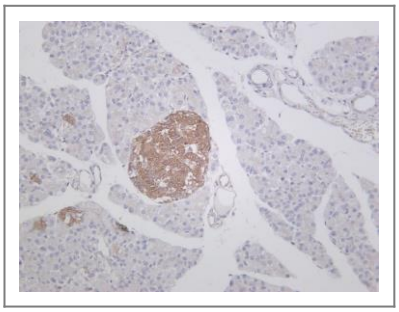
Mouse brain was stained with Anti-DRP1 (ANT0086R) rabbit antibody



Rat brain was stained with Anti-DRP1 (ANT0086R) rabbit antibody



Mouse pancreas was stained with Anti-DRP1 (ANT0086R) rabbit antibody



Rat pancreas was stained with Anti-DRP1 (ANT0086R) rabbit antibody

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