

DRP1 (Phospho Ser616) (PT0754R) PT™ Rabbit mAb

CatalogNo: YM8563 **Recombinant** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat, Bovine

Applications

- WB, IF, ELISA

MW

- 82kD (Calculated)
- 82kD (Observed)

Isotype

- IgG, Kappa

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)**Formulation** PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA

Recommended Dilution Ratios

WB 1:2000-1:10000**IF 1:200-1:1000****ELISA 1:5000-1:20000**

Basic Information

Clonality Monoclonal**Clone Number** PT0754R

Immunogen Information

Immunogen The specific immunogen used to produce this antibody is proprietary information.

Specificity

Detects endogenous levels of DRP1 only when phosphorylated at Ser616(human,mouse), Ser637(Rat). The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):PASPQ

| Target Information

Gene name DNM1L

Protein Name Dynamin-1-like protein

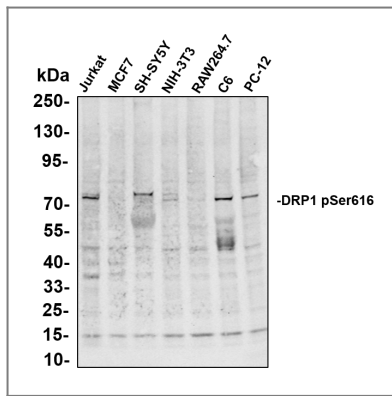
Organism	Gene ID	UniProt ID
Human	10059;	O00429;
Mouse	74006;	Q8K1M6;
Rat	114114;	O35303;

Cellular Localization Cytoplasm

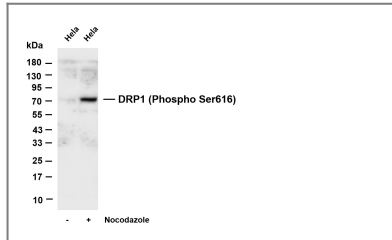
Tissue specificity Ubiquitously expressed with highest levels found in skeletal muscles, heart, kidney and brain. Isoform 1 is brain-specific. Isoform 2 and isoform 3 are predominantly expressed in testis and skeletal muscles respectively. Isoform 4 is weakly expressed in brain, heart and kidney. Isoform 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.,PTM: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 primary antibody was used at 4°C over night with a 1:5000 dilution. The Dylight 800-conjugated Goat anti-Rabbit antibody (Cat:RS23920) was used to detect the antibody. Lane1: Jurkat - Human acute T cell leukemia cells Lane2: MCF7 - Human breast cancer Lane3: SH-SY5Y - Human neuroblastoma cells Lane4: NIH-3T3 - NIH mouse fibroblasts Lane5: RAW264.7 - Mouse mononuclear macrophage leukemia cells Lane6: C6 - Rat glioma cells Lane7: PC-12 - Pheochromocytoma in rats Predicted band size: 82kDa Observed band size: 82kDa



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-DRP1 (Phospho Ser616) antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: HeLa Lane 2: HeLa was treated with Nocodazole (50 ng/mL) for 20 hours Predicted band size: 82kDa Observed band size: 82kDa

Contact information

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DRP1 (Phospho Ser616) (PT0754R) PT™ Rabbit mAb

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