

DRP1 (Phospho Ser616) Rabbit pAb

CatalogNo: YP1318

| Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB

MW

- 80kD (Observed)

Isotype

- IgG

| Storage

Storage*

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

Formulation

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

| Recommended Dilution Ratios

WB 1:1000-2000

| Basic Information

Clonality

Polyclonal

| Immunogen Information

Immunogen

Synthesized phospho peptide around human DRP1 (Ser616)

Specificity

Phospho-DRP1 (S616) Polyclonal Antibody detects endogenous levels of DRP1 protein only when phosphorylated at S616(human), S622(mouse), S635(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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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 DLP1 DRP1

Protein Name DRP1 (Ser616)

Organism	Gene ID	UniProt ID
Human	10059;	O00429;
Mouse	74006;	Q8K1M6;
Rat	114114;	Q35303;

Cellular Localization Cytoplasm, cytosol. Golgi apparatus. Endomembrane system; Peripheral membrane protein. Mitochondrion outer membrane ; Peripheral membrane protein. Peroxisome. Membrane, clathrin-coated pit . Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane . Mainly cytosolic. Recruited by RALA and RALBP1 to mitochondrion during mitosis (PubMed:21822277). Translocated to the mitochondrial membrane through O-GlcNAcylation and interaction with FIS1. Colocalized with MARCHF5 at mitochondrial membrane. Localizes to mitochondria at sites of division. Localizes to mitochondria following necrosis induction. Recruited to the mitochondrial outer membrane by interaction with MIEF1. Mitochondrial recruitment is inhibited by C11orf65/MFI (By similarity). Associated with peroxisomal membranes, partly recruited there by PEX11B. May also be associated with endoplasmic reticulum tubules and cytoplasmic vesicles and found to be perinuclear. In some cell types, localizes to the Golgi complex (By similarity). Binds to phospholipid membranes (By similarity). .

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

| Contact information

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**DRP1 (Phospho
Ser616) Rabbit pAb**

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