

Product Name: DRP1 (phospho Ser637) Rabbit Polyclonal Antibody**Catalog #: APRab04565**

For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ICC/IF,ELISA
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Phosphorylated
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:100-1:300,ELISA 1:10000-1:20000
Molecular Weight	81kDa

Antigen Information

Gene Name	DNM1L
Alternative Names	DNM1L; DLP1; DRP1; Dynamin-1-like protein; Dnm1p/Vps1p-like protein; DVLP; Dynamin family member proline-rich carboxyl-terminal domain less; Dymple; Dynamin-like protein; Dynamin-like protein 4; Dynamin-like protein IV; HdynIV; Dynamin-rela
Gene ID	10059.0
SwissProt ID	O00429
Immunogen	Synthesized phospho-peptide around the phosphorylation site of human DRP1 (phospho Ser637)

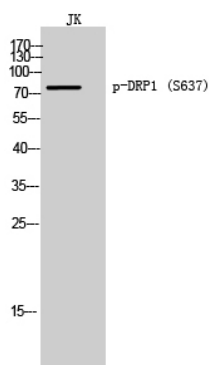
Background

This gene encodes a member of the dynamin superfamily of GTPases. The encoded protein mediates mitochondrial and peroxisomal division, and is involved in developmentally regulated apoptosis and programmed necrosis. Dysfunction of this gene is implicated in several neurological disorders, including Alzheimer's disease. Mutations in this gene are associated with the autosomal dominant disorder, encephalopathy, lethal, due to defective mitochondrial and peroxisomal fission (EMPF). Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jun 2013], catalytic activity: $\text{GTP} + \text{H}_2\text{O} = \text{GDP} + \text{phosphate}$, 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 DNML. 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.

Research Area

Endocytosis; Fc gamma R-mediated phagocytosis;

Image Data



Western Blot analysis of JK cells using Phospho-DRP1 (S637) Polyclonal Antibody