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Anti-DRP1 Rabbit mAb [36D59]

Catalog No.: A52103

Basic Information

Catalog No. (Cat.No.)	A52103
Host species	Rabbit
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IP,IF,ELISA
Synonyms	DRP1,Dynamin-1-like protein,Drp1

Product Information

Target	DRP1
Molecular Weight(Calculated)	83 kDa
Molecular Weight(Observed)	83 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	36D59
RRID	NA
Storage buffer	50% Glycerol, 0.05% BSA and 0.05% preservative in PBS (pH 7.2-7.4)
Storage	Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles.
Shipped at conditions	Frozen
Form	Liquid

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Product Usage Information

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

Target Information

Protein Name	Dynamin-related protein-1
Gene Name	*DNM1L*
Domain	NA
Background	DRP1 (Dynamin-Related Protein 1) is a GTPase of the dynamin superfamily encoded by the DNM1L gene with a molecular weight of approximately 82 kDa, acting as a core regulator of mitochondrial and peroxisomal morphological remodeling, fission and fusion. Ubiquitously expressed in mammalian cells, DRP1 is mainly localized in the cytoplasm, outer mitochondrial membrane and peroxisomal membrane. It mediates membrane constriction and scission via GTP hydrolysis, dominates the entire process of mitochondrial fission, and maintains the dynamic balance of mitochondrial fission-fusion. DRP1 participates in mitochondrial quality control, cell cycle regulation, apoptosis, ROS metabolism and autophagy activation. Abnormal DRP1 expression or dysfunction disrupts mitochondrial homeostasis, causes energy synthesis deficiency and accumulated oxidative stress, and is extensively involved in the pathogenesis of neurodegeneration, tumors, metabolic disorders and cardiovascular injury.