

# DRP1 (Phospho-Ser616) Antibody

Catalog No: #12749

Package Size: #12749 100ul

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## Description

Product Name	DRP1 (Phospho-Ser616) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.
Applications	WB
Species Reactivity	Human;Mouse;Rat
Specificity	DRP1 (Phospho-Ser616) Antibody detects endogenous levels of DRP1 only when phosphorylated at Ser616
Immunogen Type	Peptide
Immunogen Description	A synthesized peptide derived from human DRP1 (Phospho-Ser616)
Conjugates	Unconjugated
Target Name	DRP1
Modification	Phospho
Other Names	DNM1L, DYMPLE, Dynamin 1-like, Dynamin-like protein, Dynamin-like protein 4, Dynamin-like protein IV, DLP1, Dnm1p/Vps1p-like protein, DVLP, Dynamin-related protein 1, DYNIV-11, DRP1, Dynamin-1-like protein, VPS1, EMPF, HDYNIV
Accession No.	Swiss-Prot#: O00429NCBI Gene ID: 10059
Target Species	human
Calculated MW	82 kDa
SDS-PAGE MW	82 kDa
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

## Application Details

Western blotting: 1:1000

## Published Papers

et al., Axonal transport in a peripheral diabetic neuropathy model: sex-dimorphic features. In Biol Sex Differ. On 2018 Jan 19 by Pesaresi M1, Giatti S et al..PMID:29351809, , (2018)

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et al., Pyridostigmine regulates glucose metabolism and mitochondrial homeostasis to reduce myocardial vulnerability to injury in diabetic mice. In Am J Physiol Endocrinol Metab on 2019 Aug 1 by Yang Y, Zhao M et al..PMID:31211620, , (2019)

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el at., Promotion of mitochondrial fusion protects against developmental PBDE-47 neurotoxicity by restoring mitochondrial homeostasis and suppressing excessive apoptosis. In Theranostics on 2020 Jan 1; by Dong L, Li P, et al..PMID: 31938063, , (2020)

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el at., Drp1-mediated mitochondrial fission contributes to baicalein-induced apoptosis and autophagy in lung cancer via activation of AMPK signaling pathway. In Int J Biol Sci on 2020 Feb 21; by Deng X, Liu J, et al..PMID:32210728, , (2020)

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el at., ERK/Drp1-dependent mitochondrial fission contributes to HMGB1-induced autophagy in pulmonary arterial hypertension. In Cell Prolif on 2021 Jun by Wei Feng, Jian Wang, et al..PMID: 33948998, , (2021)

[PMID:33948998](#)

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el at., Ketone Body Improves Neurological Outcomes after Cardiac Arrest by Inhibiting Mitochondrial Fission in Rats. In Oxid Med Cell Longev on 2022 Jul 7 by Yunke

Tan, Jie Zhang, et al..PMID:35847595, , (2022)

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el at., Levosimendan protects from sepsis-inducing cardiac dysfunction by suppressing inflammation, oxidative stress and regulating cardiac mitophagy via the PINK-1-Parkin pathway in mice. In Ann Transl Med on 2022 Feb by Jian Shi, Yuhong Chen, et al..PMID:35280364, , (2022)

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el at., Enhancing Spns2/S1P in macrophages alleviates hyperinflammation and prevents immunosuppression in sepsis. In EMBO Rep on 2023 Aug 3 by Chao Fang, Pan Ren et al..PMID:37358015, , (2023)

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el at., AMPD3 promotes doxorubicin-induced cardiomyopathy through HSP90 $\alpha$ -mediated ferroptosis. In Sci Total Environ on 2024 Sep 15 by Liting Cheng, Mingxiang Zhu, et al..PMID:39474068, , (2024)

[PMID:39474068](#)

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Wang Fei; Xu Weilong; Liu Xiaoge; Zhang Jun et al., Dexmedetomidine ameliorates high glucose-induced epithelial-mesenchymal transformation in HK-2 cells through the Cdk5/Drp1/ROS pathway, , (2023)

[PMID:](#)

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Miaomiao Lin; Huanchen Wu; Xiaorui Wan; Na Liu; Yiyue Jiang; Yichao Sheng; Jing Wang; Haidong Xu; Jie Xue; Zhenghong Qin; Yan Wang et al., Mito-Apocynin Protects Against Kainic Acid-Induced Excitotoxicity by Ameliorating Mitochondrial Impairment., , (2025)

[PMID:40095344](#)

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Zhang Qiyao, Zhao Siqi, Ma Teng, Wang Yujie, Xu Shiqing, Wang Suhua, Wang Xiaohui, Wang Li et al., MiR-27a-3p protects against NaAsO<sub>2</sub>-induced neuronal apoptosis in HT22 cells, Scientific reports, (2025)

[PMID:40269215](#)

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Note: This product is for in vitro research use only and is not intended for use in humans or animals.