

Product Datasheet

DRP1 Antibody (3B5) - Azide and BSA Free H00010059-M01

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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H00010059-M01

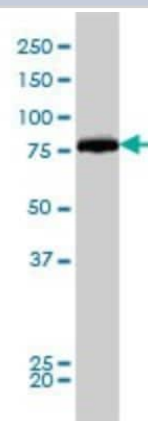
DRP1 Antibody (3B5) - Azide and BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	3B5
Preservative	No Preservative
Isotype	IgG2b Kappa
Purity	IgG purified
Buffer	In 1x PBS, pH 7.4
Product Description	
Host	Mouse
Gene ID	10059
Gene Symbol	DNM1L
Species	Human, Mouse, Rat
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 29092894). Other species not tested.
Specificity/Sensitivity	DNM1L - dynamin 1-like
Immunogen	DNM1L (AAH24590.1, 1 a.a. ~ 710 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. MEALIPVINKLQDVFN TVGADIIQLPQIVVVG TQSSGKSSVLES LVGRDLLPRGT GIVTRRPLILQLVHVSQEDKRKTTGEENGVEAE EWGKFLHTKNKLYTDFDEIRQ EIENETERISGNNKGV SPEPIHLKIFSPNVNLT LVDLPGMTKVPVGDQPKDIEL QIRELILRFISNPNSIILAVTAANTDMATSEALKISREVD PDGRRTLAVITKLDLMD AGTDAMDVLMGRVIPVKLG IIGVVNRSQ LDINNKKSVTDSIRDEY AFLQKKYPSL ANRNGTKYLARTLN RLLMHHRDCLPELKTRINVLAAQYQSLLNSYGE PVDDKS ATLLQLITKFATEYCN TIEGTAKYIETSEL CGGARICYIFHETFGRTLESVDPLGG LNTIDILTAIRNATGPRPALFVPEVS FELLVKRQIKRLEEPSLRCELVHEEMQR II QHCSNYSTQELLRF PKLHDAIVEVVTCLLRKRLPVTNEMVHNLVAIELAYINTKH PDFADACGLMNNNIEEQRRNRLARELP SAVSRDKLIQDSRRETKNVASGGGG VG DGVQEPTTGNWRGMLKTSKAEELLAEKSKPIPI MPASPQKGHAVNLLDVP VPVARKLSAREQRDCEVIERLIKSYFLIVRKNIQDSVPKAVMHFLVNHVKDTLQS ELVGQLYKSSLLDDLLTESEDMAQRRKEAADMLKALQGASQIIAEIRETHLW
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:500, ELISA 1:100-1:2000, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 1:10-1:500
Application Notes	Antibody reactive against cell lysate, transfected lysate and recombinant protein for Western Blot. Has also been used for immunohistochemistry (paraffin) and ELISA.

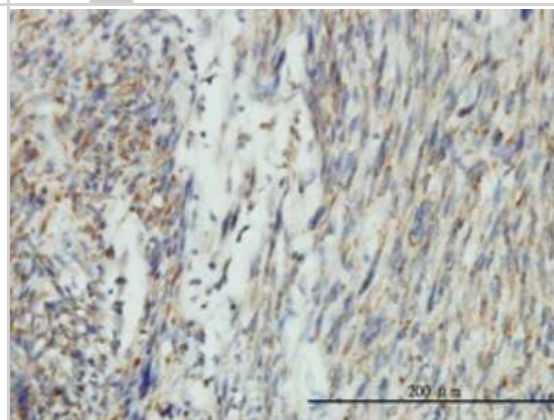


Images

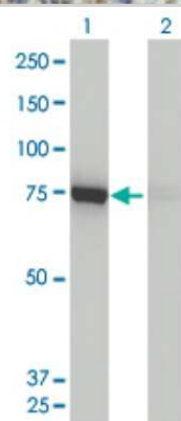
Western Blot: DRP1 Antibody (3B5) [H00010059-M01] - DNM1L monoclonal antibody (M01), clone 3B5 Analysis of DNM1L expression in K-562.



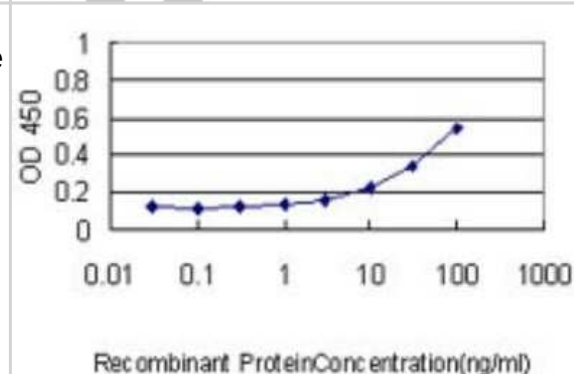
Immunohistochemistry-Paraffin: DRP1 Antibody (3B5) [H00010059-M01] - Analysis of monoclonal antibody to DNM1L on formalin-fixed paraffin-embedded human leiomyosarcoma tissue. Antibody concentration 1 ug/ml.



Western Blot: DRP1 Antibody (3B5) [H00010059-M01] - Analysis of DNM1L expression in transfected 293T cell line by DNM1L monoclonal antibody (M01), clone 3B5. Lane 1: DNM1L transfected lysate (79 kDa). Lane 2: Non-transfected lysate.



ELISA: DRP1 Antibody (3B5) [H00010059-M01] - Detection limit for recombinant GST tagged DNM1L is approximately 0.3ng/ml as a capture antibody.



Publications

Aimaretti E, Chimienti G, Rubeo C et al. Different Effects of High-Fat/High-Sucrose and High-Fructose Diets on Advanced Glycation End-Product Accumulation and on Mitochondrial Involvement in Heart and Skeletal Muscle in Mice *Nutrients* 2023-11-22 [PMID: 38068732]

Wang XX, Myakala K, Libby AE et al. Estrogen-Related Receptor Agonism Reverses Mitochondrial Dysfunction and Inflammation in the Aging Kidney *The American journal of pathology* 2023-12-01 [PMID: 37717940]

Julia J, Emilia G, Agnieszka K et al. Increasing energy expenditure through exercise and low ambient temperature offers oxidative protection to the hypothalamus after high-fat feeding to mice. *J Neuroendocrinol.* 2022-02-09 [PMID: 35138671]

Tsushima K, Bugger H, Wende AR et al. Mitochondrial Reactive Oxygen Species in Lipotoxic Hearts Induces Post-Translational Modifications of AKAP121, DRP1 and OPA1 That Promote Mitochondrial Fission *Circ. Res.* 2017-11-01 [PMID: 29092894] (Mouse)

Nicassio L, Fracasso F, Sirago G et al. Dietary supplementation with acetyl-L-carnitine counteracts age-related alterations of mitochondrial biogenesis, dynamics and antioxidant defenses in brain of old rats. *Exp Gerontol* 2017-08-12 [PMID: 28807823]

Cormio A, Musicco C, Gasparre G et al. Increase in proteins involved in mitochondrial fission, mitophagy, proteolysis and antioxidant response in type I endometrial cancer as an adaptive response to respiratory complex I deficiency. *Biochem Biophys Res Commun* 2017-07-08 [PMID: 28698145]

Vincent AM, Edwards JL, McLean LL et al. Mitochondrial biogenesis and fission in axons in cell culture and animal models of diabetic neuropathy. *Acta Neuropathol.* 2010-05-15 [PMID: 20473509]

Kim B, McLean LL, Philip SS, Feldman EL. Hyperinsulinemia induces insulin resistance in dorsal root ganglion neurons. *Endocrinology.* 2011-08-02 [PMID: 21810948]

Figuerola-Romero C, Iniguez-Lluhi JA, Stadler J et al. SUMOylation of the mitochondrial fission protein Drp1 occurs at multiple nonconsensus sites within the B domain and is linked to its activity cycle. *FASEB J* 23(11):3917-27. 2009-11-01 [PMID: 19638400]

Edwards JL, Quattrini A, Lentz SI et al. Diabetes regulates mitochondrial biogenesis and fission in mouse neurons. *Diabetologia.* 2009-10-22 [PMID: 19847394]



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Products Related to H00010059-M01

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43317-0.5mg	Mouse IgG2b Kappa Light Chain Isotype Control (MG2b)
H00010059-P01-10ug	Recombinant Human DRP1 GST (N-Term) Protein

Limitations

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