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DNM1L Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant DNM1L.
Catalog # AT1801a

Product Information

Application	WB, IHC, E
Primary Accession	O00429
Other Accession	BC024590
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2b kappa
Clone Names	3B5
Calculated MW	81877

Additional Information

Gene ID	10059
Other Names	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-related protein 1, DNM1L, DLP1, DRP1
Target/Specificity	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.
Dilution	WB~~1:500~1000 IHC~~1:100~500 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	DNM1L Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

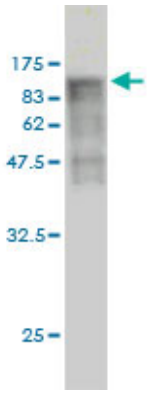
Background

The protein encoded by this gene is a member of the dynamin superfamily of GTPases. Members of the dynamin-related subfamily, including the S. cerevisiae proteins Dnm1 and Vps1, contain the N-terminal tripartite GTPase domain but do not have the pleckstrin homology or proline-rich domains. This protein establishes mitochondrial morphology through a role in distributing mitochondrial tubules throughout the cytoplasm. The gene has 3 alternatively spliced transcripts encoding different isoforms. These transcripts are alternatively polyadenylated.

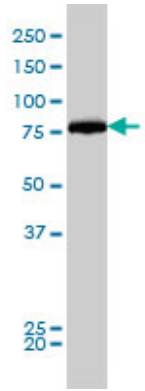
References

1.Hyperinsulinemia induces insulin resistance in dorsal root ganglion neurons.Kim B, McLean LL, Philip SS, Feldman EL.Endocrinology. 2011 Oct;152(10):3638-47. Epub 2011 Aug 2.2.Mitochondrial biogenesis and fission in axons in cell culture and animal models of diabetic neuropathy.Vincent AM, Edwards JL, McLean LL, Hong Y, Cerri F, Lopez I, Quattrini A, Feldman EL.Acta Neuropathol. 2010 May 15. [Epub ahead of print]3.Diabetes regulates mitochondrial biogenesis and fission in mouse neurons.Edwards JL, Quattrini A, Lentz SI, Figueroa-Romero C, Cerri F, Backus C, Hong Y, Feldman EL.Diabetologia. 2009 Oct 22. [Epub ahead of print]4.SUMOylation of the mitochondrial fission protein Drp1 occurs at multiple nonconsensus sites within the B domain and is linked to its activity cycle.Figueroa-Romero C, Iniguez-Lluh JA, Stadler J, Chang CR, Arnoult D, Keller PJ, Hong Y, Blackstone C, Feldman EL.FASEB J. 2009 Jul 28. [Epub ahead of print]

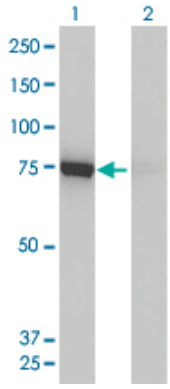
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (103.84 KDa) .



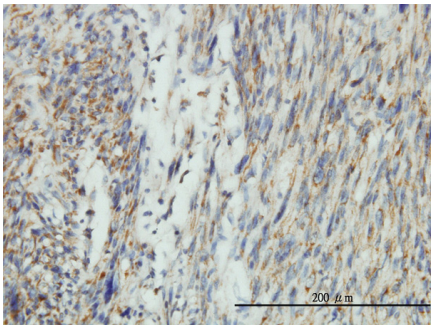
DNM1L monoclonal antibody (M01), clone 3B5 Western Blot analysis of DNM1L expression in K-562 ((Cat # AT1801a)

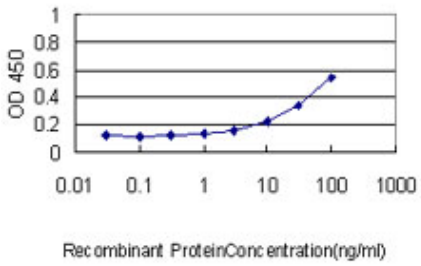


Western Blot analysis of DNM1L expression in transfected 293T cell line by DNM1L monoclonal antibody (M01), clone 3B5.

Lane 1: DNM1L transfected lysate(79 KDa).
Lane 2: Non-transfected lysate.

Immunoperoxidase of monoclonal antibody to DNM1L on formalin-fixed paraffin-embedded human leiomyosarcoma tissue. [antibody concentration 1 ug/ml]





Detection limit for recombinant GST tagged DNM1L is approximately 0.3ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.