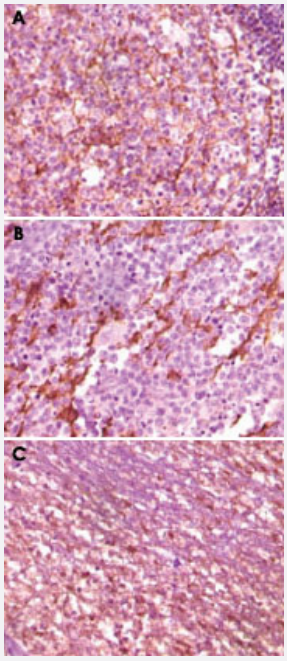
DNM1 monoclonal antibody, clone 3G4B6

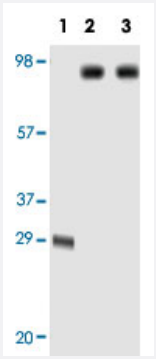
Catalog # MAB8301 Size 100 uL

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human lymph tissue (A), glioma tissue (B) and cerebellum tissue (C), showing membrane localization using DNM1 monoclonal antibody, clone 3G4B6 (Cat # MAB8301) with DAB staining.



Western Blot

Western blot analysis using DNM1 monoclonal antibody, clone 3G4B6 (Cat # MAB8301) against truncated DNM1 recombinant protein (Lane 1), SK-N-SH (Lane 2) and NIH/3T3 (Lane 3) cell lysate.

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant DNM1.
Immunogen	Recombinant protein corresponding to truncated human DNM1.

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Host	Mouse
Reactivity	Human
Form	Liquid
Isotype	IgG2a
Recommend Usage	Western Blot (1:500-1:2000) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:500-1:2000) Immunohistochemistry (Frozen sections) (1:500-1:2000) ELISA (1:10000) The optimal working dilution should be determined by the end user.
Storage Buffer	In ascites
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical analysis of paraffin-embedded human lymph tissue (A), glioma tissue (B) and cerebellum tissue (C), showing membrane localization using DNM1 monoclonal antibody, clone 3G4B6 (Cat # MAB8301) with DAB staining.

- Immunohistochemistry (Frozen sections)

- Enzyme-linked Immunoabsorbent Assay

- Western Blot

  Western blot analysis using DNM1 monoclonal antibody, clone 3G4B6 (Cat # MAB8301) against truncated DNM1 recombinant protein (Lane 1), SK-N-SH (Lane 2) and NIH/3T3 (Lane 3) cell lysate.

Gene Info — DNM1

Entrez GeneID	1759
Gene Name	DNM1
Gene Alias	DNM
Gene Description	dynamin 1
Omim ID	602377

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Gene Ontology	Hyperlink
Gene Summary	This gene encodes a member of the dynamin subfamily of GTP-binding proteins. The encoded protein possesses unique mechanochemical properties used to tubulate and sever membranes, and is involved in clathrin-mediated endocytosis and other vesicular trafficking processes. Actin and other cytoskeletal proteins act as binding partners for the encoded protein, which can also self-assemble leading to stimulation of GTPase activity. More than sixty highly conserved copies of the 3' region of this gene are found elsewhere in the genome, particularly on chromosomes Y and 15. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq
Other Designations	-

Publication Reference

- Rapid purification of native dynamin I and colorimetric GTPase assay.

  Quan A, Robinson PJ.

  Methods in Enzymology 2005 Jan; 404:556.

  Application: IP, WB, Sheep, Sheep brains

- Activation of dynamin I gene expression by Sp1 and Sp3 is required for neuronal differentiation of N1E-115 cells.

  Yoo J, Jeong MJ, Kwon BM, Hur MW, Park YM, Han MY.

  The Journal of Biological Chemistry 2002 Apr; 277(14):11904.

  Application: IF, Mouse, N1E-115 cells

Pathway

- Endocytosis
- Fc gamma R-mediated phagocytosis

Disease

- Tobacco Use Disorder

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