

## Dynamin-1 monoclonal antibody

Catalog: MB21067

Host: Mouse

Reactivity: Human

### Background:

Dynamin-1 (Dyn1), with 864-amino acid protein (about 95kDa), belongs to the dynamin family. Dynamin-1 (neuron-specific), dynamin-2 (ubiquitously expressed), and dynamin-3 (expressed only in the testis, brain, and lung), constitute the dynamin family. Members of the dynamin family are GTPase, microtubule-associated proteins which are involved in endocytosis, synaptic transmission and neurogenesis. Dynamin-1 is phosphorylated in nerve terminals exclusively in the cytosolic compartment and in vitro by protein kinase C. Dynamin-1 is a large GTPase enzyme required in membrane constriction and fission during multiple forms of endocytosis. Dynamin-1 is also a key molecule required for the recycling of synaptic vesicles in neurons, and it has been known that dynamin-1 gene expression is induced during neuronal differentiation.

### Product:

Ascitic fluid containing 0.03% sodium azide.

### Molecular Weight:

97kDa

### Swiss-Prot:

Q05193

### Purification&Purity:

The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB:1/500 - 1/2000 IHC:1/200 - 1/1000

### Storage&Stability:

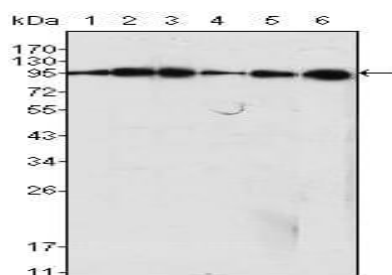
Store at 4 °C short term. Aliquot and store at -20 °C long

term. Avoid freeze-thaw cycles.

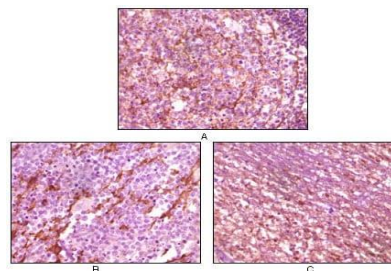
### Isotype:

Mouse IgG2a

### DATA:



Western blot analysis using Dynamin1 mouse mAb against C6 (1), NIH/3T3 (2), SKN-SH (3), LN18 (4), SHSY5Y (5) cell lysate and rat brain tissues lysate (6).



Immunohistochemical analysis of paraffin-embedded human lymph tissue (A), glioma tissue (B) and cerebellum tissue (C), showing membrane localization using Dynamin1 mouse mAb with DAB staining

### Note:

For research use only, not for use in diagnostic procedure.

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