



## Dynamin-1 Mouse Monoclonal Antibody

E10-20072

**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.

**Catalog Number:** E10-20072

**Amount:** 100µg/100µl

**Clone Number:** 3G4B6

**Species:** Mouse IgG2a

**Aliases:** ECK. EPHA2

**Entrez Gene:** 1759

**Immunogen:** Purified recombinant fragment of human Dynamin-1 expressed in E. Coli.

**Storage:** Store at 4°C, for long term storage, store at -20°C

**Formulation:** Ascitic fluid containing 0.03% sodium azide.

**Species Reactivities:** Human

**Tested Applications:** WB, IHC, ELISA. Not yet tested in other applications. Determining optimal working dilutions by titration test.

**Application notes:** WB.1/500 - 1/2000, IHC.1/200 - 1/1000, ELISA. Propose dilution 1/10000.

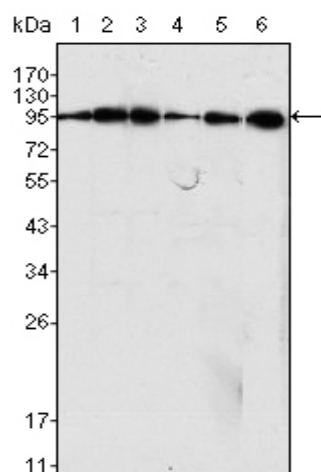


Figure 1. Western blot analysis using Dynamin1 mouse mAb against C6 (1), NIH/3T3 (2), SKN-SH (3), LN18 (4), SHSY5Y (5) cell lysate and rat brain tissues lysate (6).

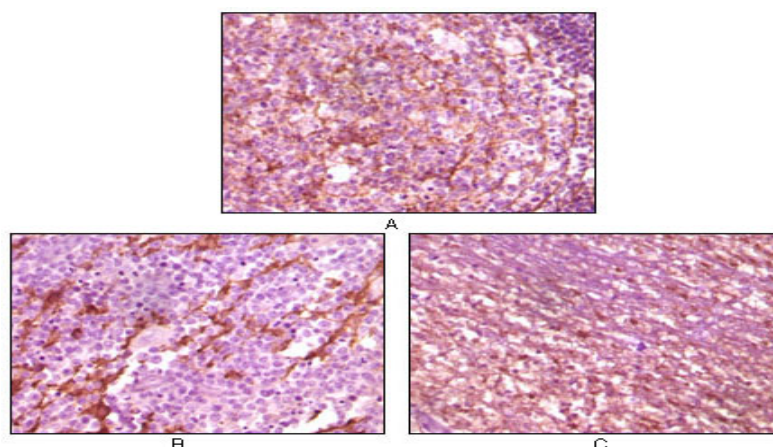


Figure 2. Immunohistochemical analysis of paraffin-embedded human lymph tissue (A), glioma tissue (B) and cerebellum tissue (C), showing membrane localization using Dynamin1 mouse mAb with DAB staining

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