

Monoclonal Antibody to Dynamin-2

Cat. #: Mab-607011

Description:

Dynamin-2 (Dyn2), with 870-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 expressed exclusively in neurons, Dynamin 2 is ubiquitously expressed and Dynamin 3 is thought to be restricted to expression in the brain, testis, heart, and lung. The dynamins participate in the cellular process of clathrin-mediated and fluid-phase endocytosis.

Immunogen/Specificity:

Ni-NTA purified truncated recombinant Dynamin-2 expressed in E. Coli strain BL21 (DE3)

Applications :

Western Blot: 1: 500- 1: 2,000

IHC(P): 1: 500- 1: 2,000

IHC(F): 1: 500- 1: 2,000

ELISA: Propose dilution 1: 10,000.

Determining optimal working dilutions by titration test.

Formulation

Crude ascites.

Reference:

1. Annie Quan and Phillip J. Robinson

Methods Enzymol. 2005; 404:556-69.

2. Jiyun Yoo, Moon-Jin Jeong, Byoung-Mog Kwon

J. Biol. Chem., Mar 2002; 277: 11904 - 11909

Clone Number: 5E4C2F3

Isotype: IgG2a

Species: Human

Storage and Stability: stored at -20 C

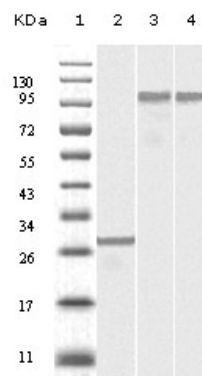


Figure 1: Western blot analysis using anti-Human Dynamin-2 monoclonal antibody against truncated Dynamin-2 recombinant protein (2), SK-N-SH (3), NIH3T3 (4) cell lysate.

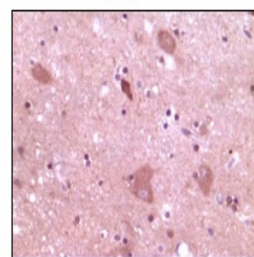
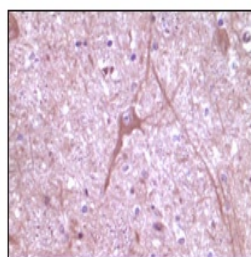


Figure 2: Immunohistochemical analysis of paraffin-embedded human cerebrum and myelencephalon tissue, showing cytoplasm localization using Dynamin-2 antibody with DAB staining.