

Anti-Dynamin 1 Antibody

ER1802-77



| | |
|----------------------------|---|
| Product Type: | Rabbit polyclonal IgG, primary antibodies |
| Species reactivity: | Mouse, Rat, Human |
| Applications: | WB, IHC-P |
| Molecular Wt: | Predicted band size: 97 kDa |

Description: Members of the Dynamin family, including Dynamin I and Dynamin II, are GTPase, microtubule-associated proteins which are involved in endocytosis, synaptic transmission and neurogenesis. Dynamin I is localized to the central nervous system, while Dynamin II exhibits ubiquitous distribution with highest expression found in testis. Both dynamin proteins contain SH3 and proline-rich domains that mediate interactions between the dynamins and effectors of their GTPase activity). The interactions with these effectors, which include microtubules, acidic phospholipids and SH3 domain-containing proteins, are required for rapid endocytosis. Dynamin I appears to be recruited to clathrin coated pits by SH3 domain interaction with amphiphysin, a protein highly expressed in brain.

Immunogen: Recombinant protein within human Dynamin 1 aa 565-770.

Positive control: Mouse brain tissue lysate, Mouse brain tissue, rat brain tissue, mouse cerebellum tissue.

Subcellular location: Cytoplasm, Cytoskeleton, Microtubule.

Database links: SwissProt: Q05193 Human | P39053 Mouse | P21575 Rat

Recommended Dilutions:

| | |
|--------------|---------------|
| WB | 1:500-1:1,000 |
| IHC-P | 1:50-1:200 |

Storage Buffer: 1*PBS (pH7.4), 0.2% BSA, 50% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.

Purity: Immunogen affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

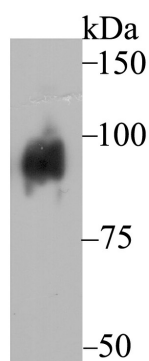


Fig1: Western blot analysis of Dynamin 1 on mouse brain tissue lysate using anti-Dynamin 1 antibody at 1/500 dilution.

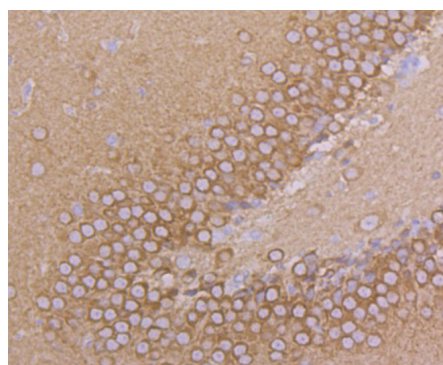


Fig2: Immunohistochemical analysis of paraffin-embedded rat brain tissue using anti-Dynamin 1 antibody. Counter stained with hematoxylin.

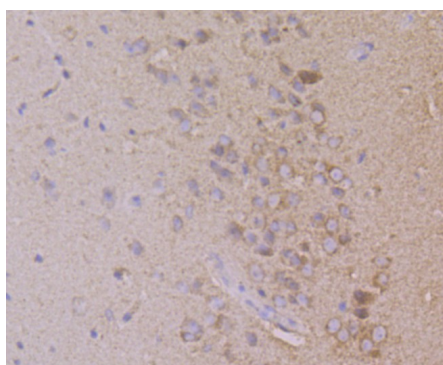


Fig3: Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-Dynamin 1 antibody. Counter stained with hematoxylin.

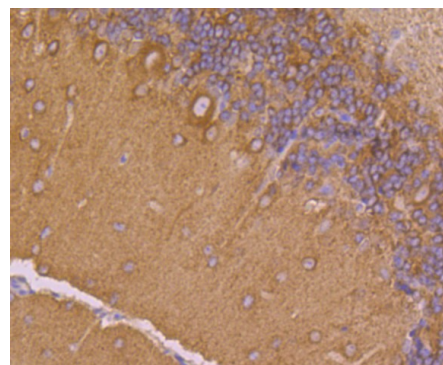


Fig4: Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue using anti-Dynamin 1 antibody. Counter stained with hematoxylin.

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Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Soulet F et al. SNX9 regulates dynamin assembly and is required for efficient clathrin-mediated endocytosis. *Mol Biol Cell* 16:2058-2067 (2005).
2. Appenzeller S et al. De novo mutations in synaptic transmission genes including DNM1 cause epileptic encephalopathies. *Am J Hum Genet* 95:360-370 (2014).

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