**BACKGROUND**

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 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.

**CHROMOSOMATIC LOCATION**

Genetic locus: DNM2 (human) mapping to 9p23; Dnm2 (mouse) mapping to 9A3.

**SOURCE**

Dynamin II (C-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of Dynamin II of human origin.

**PRODUCT**

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-6400 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

**APPLICATIONS**

Dynamin II (C-18) is recommended for detection of Dynamin II of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation (1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000), may cross-react with Dynamin III.

Dynamin II (C-18) is also recommended for detection of Dynamin II in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Dynamin II siRNA (h): sc-35236, Dynamin II siRNA (m): sc-35237, Dynamin II shRNA Plasmid (h): sc-35236-SH, Dynamin II shRNA Plasmid (m): sc-35237-SH, Dynamin II shRNA (h) Lentiviral Particles: sc-35236-V and Dynamin II shRNA (m) Lentiviral Particles: sc-35237-V.

Molecular Weight of Dynamin II: 100 kDa.

Positive Controls: rat brain extract: sc-2392, rat testis extract: sc-2400 or HeLa whole cell lysate: sc-2200.

**STORAGE**

Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**RESEARCH USE**

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

**DATA**

- **Western blot analysis of Dynamin II expression in rat brain (A) and testis (B) tissue extracts and in HeLa (C) and NIH/3T3 (D) whole cell lysates.**

**SELECT PRODUCT CITATIONS**


**MONOS**

Try Dynamin II (G-4): sc-166669 or Dynamin I/II (E-4): sc-390160, our highly recommended monoclonal alternatives to Dynamin II (C-18). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see Dynamin II (G-4): sc-166669.