**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.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: DNM1 (human) mapping to 9q34.11; Dnm1 (mouse) mapping to 2B.

**SOURCE**

Dynamin (E-11) is a mouse monoclonal antibody raised against amino acids 567-866 mapping at the C-terminus of Dynamin of human origin.

**PRODUCT**

Each vial contains 200 µg IgGk kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Dynamin (E-11) is available conjugated to agarose (sc-17807 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-17807 HRP), 200 µg/ml, for WB, IHC(PE) and ELISA; to either phycoerythrin (sc-17807 PE), fluorescence (sc-17807 FITC), Alexa Fluor® 488 (sc-17807 AF488), Alexa Fluor® 546 (sc-17807 AF546), Alexa Fluor® 594 (sc-17807 AF594) or Alexa Fluor® 647 (sc-17807 AF647), 200 µg/ml, for WB (RGB), IF, IHC(PE) and FCM; and to either Alexa Fluor® 680 (sc-17807 AF680) or Alexa Fluor® 790 (sc-17807 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

Dynamin (E-11) is recommended for detection of Dynamin of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1,000), 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).

Molecular Weight of Dynamin: 100 kDa.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGk BP-HRP: sc-516102 or m-IgGk BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGk BP-FITC: sc-516140 or m-IgGk BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Hard-set Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

**DATA**

![Dynamin (E-11): sc-17807. Western blot analysis of Dynamin expression in non-transfected 293T: sc-177752 (A), human Dynamin I transfected 293T: sc-117782 (B) and SK-N-SH (C) whole cell lysates.](image)

**SELECT PRODUCT CITATIONS**


**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.

**PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.

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