

**Dynamin Antibody**  
**Affinity purified rabbit polyclonal antibody**  
**Catalog # AN1122****Specification**

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**Dynamin Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q05193</a>
Reactivity	Rat
Predicted	Bovine, Chicken, Human, Mouse, Monkey
Host	Rabbit
Clonality	polyclonal
Calculated MW	95 KDa

**Dynamin Antibody - Additional Information**

Gene ID	1759
Gene Name	DNM1
<b>Other Names</b>	
Dynamin-1, DNM1, DNM	

**Target/Specificity**

Synthetic peptide corresponding to amino acid residues from the N-terminal region conjugated to KLH.

**Dilution**

WB~~ 1:1000

**Format**

Prepared from rabbit serum by affinity purification via chromatography on an affinity column made with the N-terminal peptide used as antigen.

**Antibody Specificity**

Specific for ~95k dynamin protein.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Dynamin Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Shipping**

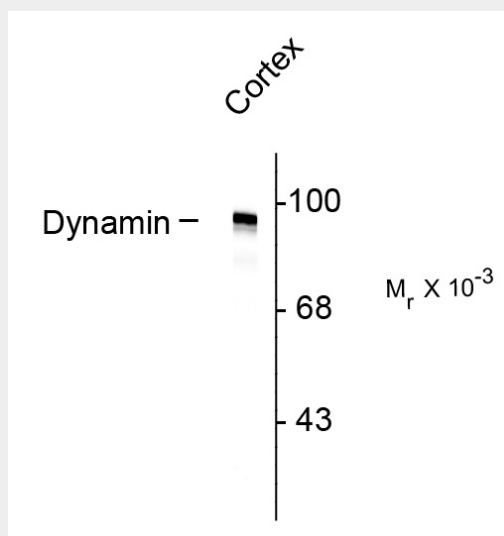
Blue Ice

**Dynamin Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Dynamin Antibody - Images



Western Blot of rat cortex lysate showing labeling of the ~95k dynamin protein.

## Dynamin Antibody - Background

Dynamin is a member of a group of nerve terminal proteins called dephosphins that regulate synaptic vesicle endocytosis (Cousin et al., 2001; Graham et al., 2002; Tsuboi et al., 2002). There are 3 known isoforms of Dynamin, each having several splice variants as well. Dynamin I is expressed only in neurons whereas Dynamin II is ubiquitously expressed and Dynamin III is found primarily in the testes. Dynamin 1 is phosphorylated by PKC and dephosphorylated by calcineurin.

## Dynamin Antibody - References

Cousin MA, Tan TC, Robinson PJ (2001) Protein phosphorylation is required for endocytosis in nerve terminals: potential role for the dephosphins dynamin I and synaptojanin, but not AP180 or amphiphysin. *J Neurochem* 76:105-116.

Graham ME, O'Callaghan DW, McMahon HT, Burgoyne RD (2002) Dynamin-dependent and dynamin-independent processes contribute to the regulation of single vesicle release kinetics and quantal size. *Proc Natl Acad Sci USA* 99:7124-7129.

Tan TC, Valova VA, Malladi CS, Graham ME, Berven LA, Jupp OJ, Hansra G, McClure SJ, Sarcevic B, Boadle RA, Larsen MR, Cousin MA, Robinson PJ (2003) cdk5 is essential for synaptic vesicle endocytosis. *Nat Cell Biol* 5:701-710.

Tsuboi T, Terakawa S, Scalettar BA, Fantus C, Roder J, Jeromin A (2002) Sweeping model of dynamin activity - Visualization of coupling between exocytosis and endocytosis under an evanescent wave microscope with green fluorescent proteins. J Biol Chem 277:15957-15961.