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Dynamin Antibody
Affinity purified rabbit polyclonal antibody
Catalog # AN1122

Specification

Dynamin Antibody - Product Information

Application	**WB**
Primary Accession	Q05193
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**

Other Names
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.

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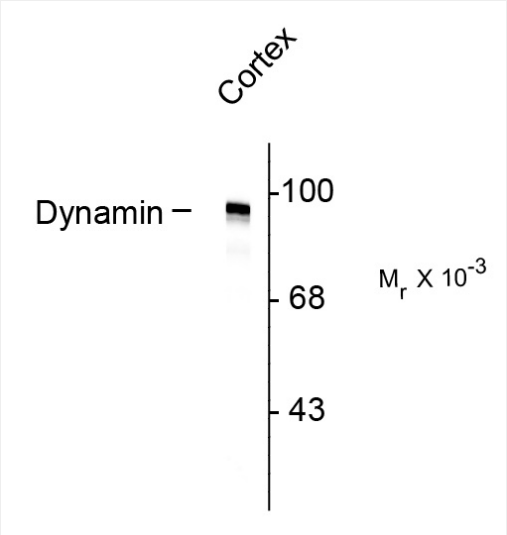
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

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 isofoms 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
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Tsuboi T, Terakawa S, Scalettar BA, Fantus C, Roder J, Jeromin A (2002) Sweeping model of dynamin activity -
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