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# anti-Dynamin 1 antibody (AA 698-851)

2 Images



**Publications** 



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## Overview

Quantity:	50 μg
Target:	Dynamin 1 (DNM1)
Binding Specificity:	AA 698-851
Reactivity:	Human, Mouse, Rat, Dog, Chicken
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Dynamin 1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP)

# **Product Details**

Immunogen:	Rat Dynamin I aa. 698-851
Clone:	41-Dynamin
Isotype:	lgG1
Cross-Reactivity:	Human, Dog (Canine), Chicken, Mouse (Murine)
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
	2. Please refer to us for technical protocols.
	3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide
	compounds in running water before discarding to avoid accumulation of potentially explosive
	deposits in plumbing.
	4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

# **Product Details**

Purification:

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

# **Target Details**

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Target:	Dynamin 1 (DNM1)
Alternative Name:	Dynamin (DNM1 Products)
Background:	Dynamin is a nerve terminal phosphoprotein with intrinsic GTPase activity which plays an
	important role in endocytosis. This GTPase activity is stimulated in vitro by microtubules, SH3
	domain-containing proteins, phospholipids, and Protein Kinase C (PKC)-mediated
	phosphorylation. There are at least two distinct dynamin genes in mammals, which show 79%
	identity, encoding proteins Dynamin I and Dynamin II. Dynamin I is expressed almost
	exclusively in the central nervous system while Dynamin II expression is ubiquitous.
	Depolarization stimulates synaptic vesicle recycling and Dynamin I is subsequently
	dephosphorylated. This rapid dephosphorylation is mediated by calcineurin which acts as a
	switch for depolarization-initiated synaptic vesicle endocytosis. The C-terminus of dynamin
	contains two clusters of proline-rich SH3 domain binding proline motifs which interact with
	known SH3 domain proteins during tyrosine kinase receptor activation. It is reported that clone
	41 detects both dynamin I and dynamin II.
Molecular Weight:	100 kDa
Pathways:	Toll-Like Receptors Cascades, CXCR4-mediated Signaling Events, Thromboxane A2 Receptor
	Signaling
Application Details	
Comment:	Related Products: ABIN968539, ABIN967389
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	250 μg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide

# Handling

Precaution of Use:

This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage:

-20 °C

Storage Comment:

Store undiluted at -20° C.

### **Publications**

Product cited in:

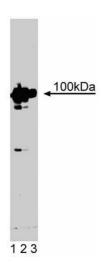
Hayes, Chawla, Corvera: "TGF beta receptor internalization into EEA1-enriched early endosomes: role in signaling to Smad2." in: **The Journal of cell biology**, Vol. 158, Issue 7, pp. 1239-49, (2002) (PubMed).

Kalthoff, Groos, Kohl, Mahrhold, Ungewickell: "Clint: a novel clathrin-binding ENTH-domain protein at the Golgi." in: **Molecular biology of the cell**, Vol. 13, Issue 11, pp. 4060-73, (2002) ( PubMed).

Schmidlin, Dery, DeFea, Slice, Patierno, Sternini, Grady, Bunnett: "Dynamin and Rab5a-dependent trafficking and signaling of the neurokinin 1 receptor." in: **The Journal of biological chemistry**, Vol. 276, Issue 27, pp. 25427-37, (2001) (PubMed).

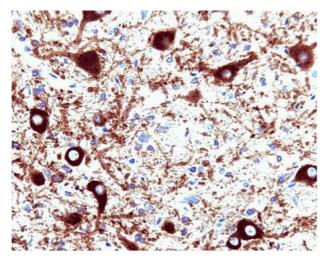
Ochoa, Slepnev, Neff, Ringstad, Takei, Daniell, Kim, Cao, McNiven, Baron, De Camilli: "A functional link between dynamin and the actin cytoskeleton at podosomes." in: **The Journal of cell biology**, Vol. 150, Issue 2, pp. 377-89, (2000) (PubMed).

Scaife, Gout, Waterfield, Margolis: "Growth factor-induced binding of dynamin to signal transduction proteins involves sorting to distinct and separate proline-rich dynamin sequences." in: **The EMBO journal**, Vol. 13, Issue 11, pp. 2574-82, (1994) (PubMed).



# **Western Blotting**

**Image 1.** Western blot analysis of Dynamin on PC12 cell lysate. Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of anti-Dynamin.



# **Immunohistochemistry (Paraffin-embedded Sections)**

**Image 2.** Dynamin (clone 41) staining on rat brain. Formalin fixed paraffin section without citrate buffer pretreatment. 40X.