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anti-DNM2 antibody (AA 274-555)

2 Images



Publications



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Overview

Quantity:	50 μg
Target:	DNM2
Binding Specificity:	AA 274-555
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This DNM2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP)

Product Details

Immunogen:	Rat Dynamin II aa. 274-555
Clone:	27-Dynamin II
Isotype:	lgG2a
Cross-Reactivity:	Human, Mouse (Murine)
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
	2. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
	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. Please refer to us for technical protocols.

Product Details

Purification:

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

Target Details

Format:

Concentration:

Liquid

250 μg/mL

Target:	DNM2
Alternative Name:	Dynamin II (DNM2 Products)
Background:	Dynamin is a membrane-associated GTPase that binds to GTP, microtubules, and
	phospholipids. Northern blot analysis has shown dynamin to be present in most tissues but at
	an amount about 20-fold lower than that in brain. There are at least two distinct dynamin genes
	in mammals. Transcripts of both dynamin genes are alternatively spliced at two or more sites.
	The first site is identical in both dynamins, whereas, the second site differs. The two gene
	products are known as Dynamin I and Dynamin II and show 79% identity. Dynamin I is
	expressed almost exclusively in the central nervous system while Dynamin II expression is
	ubiquitous. The two proteins are highly homologous in the N-terminal region, while the C-
	terminal domain shows significant divergence. The GTPase activity of Dynamin I is stimulated
	several fold by binding to microtubules, phospholipids, and membranous vesicles. Dynamin I is
	a good substrate of PKC in vitro as well as in vivo in resting nerve terminals. In vitro,
	phosphorylation occurs at the C-terminus of Dynamin I and this enhances the GTPase activity
	more than 10-fold. However, Dynamin II is not a substrate of PKC and its activity does not
	appear to be affected by phosphorylation. These data suggest that the function of the common
	N-terminal domain between Dynamin I and II may be differentially specified by distinct C-
	terminal domains.
Molecular Weight:	100 kDa
Pathways:	Toll-Like Receptors Cascades
Application Details	
Comment:	Related Products: ABIN967389, ABIN968535
Restrictions:	For Research Use only
Handling	

Handling

Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide
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:

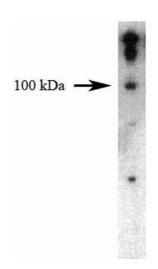
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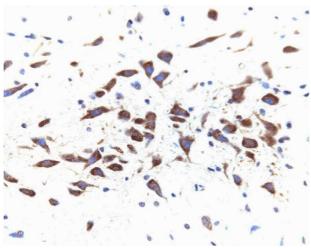
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Western Blotting

Image 1. Western blot analysis of Dynamin II on a HeLa cell lysate (Human cervical epitheloid carcinoma, ATCC CCL-2) using 1 μ g/mL of the Mouse Anti-Dynamin II antibody.



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Immunohistochemical staining for Dynamin II on a rat brain section, zinc-fixed paraffin-embedded (40X magnification).