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Datasheet for ABIN2784624

## anti-Dynamin 1 antibody (Middle Region)

### 2 Images

#### Overview

Quantity:	100 µL
Target:	Dynamin 1 (DNM1)
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Dog, Cow, Guinea Pig, Horse, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Dynamin 1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

#### Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human DNM1
Sequence:	PPVDDSWLQV QSVPAARRSP TSSPTQRRR PAVPPARPGS RGPAGPPPA
Predicted Reactivity:	Cow: 93%, Dog: 100%, Guinea Pig: 100%, Horse: 86%, Human: 100%, Mouse: 100%, Rat: 100%, Zebrafish: 86%
Characteristics:	This is a rabbit polyclonal antibody against DNM1. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

#### Target Details

Target:	Dynamin 1 (DNM1)
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## Target Details

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Alternative Name: DNM1 ([DNM1 Products](#))

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Background: DNM1 is a member of the dynamin subfamily of GTP-binding proteins. The protein possesses unique mechanochemical properties used to tubulate and sever membranes, and is involved in clathrin-mediated endocytosis and other vesicular trafficking processes. Actin and other cytoskeletal proteins act as binding partners for the protein, which can also self-assemble leading to stimulation of GTPase activity. More than sixty highly conserved copies of the 3' region of this gene are found elsewhere in the genome, particularly on chromosomes Y and 15. Alternatively spliced transcript variants encoding different isoforms have been described. This gene encodes a member of the dynamin subfamily of GTP-binding proteins. The encoded protein possesses unique mechanochemical properties used to tubulate and sever membranes, and is involved in clathrin-mediated endocytosis and other vesicular trafficking processes. Actin and other cytoskeletal proteins act as binding partners for the encoded protein, which can also self-assemble leading to stimulation of GTPase activity. More than sixty highly conserved copies of the 3' region of this gene are found elsewhere in the genome, particularly on chromosomes Y and 15. Alternatively spliced transcript variants encoding different isoforms have been described.

Alias Symbols: DNM

Protein Interaction Partner: BIN1, SLA1, UBC, GRB2, AMPH, NCL, FANCD2, IRF2BPL, TBC1D2, NPM3, SNRPA1, SNX9, Fcho2, IQCB1, NCK2, NCK1, Asap1, SH3BP4, DNM1, PTK2B, PIAS1, SUMO1, UBE2I, SRC, ITSN1, SH3GL2, DYRK1A, CDK5, ARRB1, Ap2a1, SH3KBP1, DNM2, ADAM2, UBASH3A, KIAA1377, GRIN1, MED31

Protein Size: 851

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Molecular Weight: 95 kDa

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Gene ID: 1759

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NCBI Accession: [NM\\_004408](#), [NP\\_004399](#)

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UniProt: [P39053](#)

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Pathways: [Toll-Like Receptors Cascades](#), [CXCR4-mediated Signaling Events](#), [Thromboxane A2 Receptor Signaling](#)

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## Application Details

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Application Notes: Optimal working dilutions should be determined experimentally by the investigator.

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Comment: Antigen size: 851 AA

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Restrictions: For Research Use only

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## Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

## Images



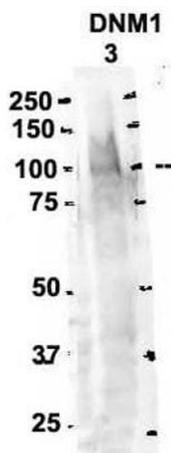
### Western Blotting

#### Image 1. WB Suggested Anti-DNM1 Antibody Titration:

0.2-1 ug/ml

**ELISA Titer:** 1:12500

**Positive Control:** Human brain



See Immunoblot 2 Data for more information.

### Western Blotting

**Image 2. Sample Type:** 3. rat brain extract (80ug)

**Primary Antibody Dilution:** 2ug/ml

**Secondary Antibody:** IRDye 800CW goat anti-rabbit from LI-COR Bioscience

**Secondary Antibody Dilution:** 1: 20,000

**Image Submitted by:** Yuzhi Chen

University of Arkansas for Medical Science