

Datasheet for ABIN5692845  
**anti-DNM2 antibody (AA 177-441)**



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1 Image

## Overview

|                      |                                     |
|----------------------|-------------------------------------|
| Quantity:            | 100 µg                              |
| Target:              | DNM2                                |
| Binding Specificity: | AA 177-441                          |
| Reactivity:          | Human, Mouse, Rat                   |
| Host:                | Rabbit                              |
| Clonality:           | Polyclonal                          |
| Conjugate:           | This DNM2 antibody is un-conjugated |
| Application:         | Western Blotting (WB), ELISA        |

## Product Details

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| Purpose:                    | Anti-Dynamin 2/DNM2 Antibody Picoband®                                                                                                                                                                                                                                                                                                                                                                                               |
| Immunogen:                  | E. coli-derived human Dynamin 2 recombinant protein (Position: A177-Q441).                                                                                                                                                                                                                                                                                                                                                           |
| Isotype:                    | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Cross-Reactivity (Details): | No cross-reactivity with other proteins.                                                                                                                                                                                                                                                                                                                                                                                             |
| Characteristics:            | <p>Anti-Dynamin 2/DNM2 Antibody Picoband® (ABIN5692845). Tested in ELISA, WB applications.</p> <p>This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.</p> |

## Target Details

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| Target:           | DNM2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Alternative Name: | DNM2 ( <a href="#">DNM2 Products</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Background:       | <p>Synonyms: Dynamin-2, DNM2, DYN2</p> <p>Tissue Specificity: Ubiquitously expressed.</p> <p>Background: Dynamin-2 is a protein that in humans is encoded by the DNM2 gene. Dynamins represent one of the subfamilies of GTP-binding proteins. These proteins share considerable sequence similarity over the N-terminal portion of the molecule, which contains the GTPase domain. Dynamins are associated with microtubules. They have been implicated in cell processes such as endocytosis and cell motility, and in alterations of the membrane that accompany certain activities such as bone resorption by osteoclasts. Dynamins bind many proteins that bind actin and other cytoskeletal proteins. Dynamins can also self-assemble, a process that stimulates GTPase activity. Five alternatively spliced transcripts encoding different proteins have been described. Additional alternatively spliced transcripts may exist, but their full-length nature has not been determined.</p> |
| Molecular Weight: | 100 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Gene ID:          | 1785                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| UniProt:          | <a href="#">P50570</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Pathways:         | <a href="#">Toll-Like Receptors Cascades</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

## Application Details

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application Notes: | <p>Western blot, 0.1-0.5 µg/mL</p> <p>ELISA, 0.1-0.5 µg/mL</p> <p>1. "Entrez Gene: DNM2 dynamin 2". 2. Diatloff-Zito C, Gordon AJ, Duchaud E, Merlin G (Nov 1995). "Isolation of an ubiquitously expressed cDNA encoding human dynamin II, a member of the large GTP-binding protein family". Gene. 163 (2): 301-6. 3. Klocke R, Augustin A, Ronsiek M, Stief A, van der Putten H, Jockusch H (Jul 1997). "Dynamin genes Dnm1 and Dnm2 are located on proximal mouse chromosomes 2 and 9, respectively". Genomics. 41 (2): 290-2.</p> |
| Restrictions:      | For Research Use only                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

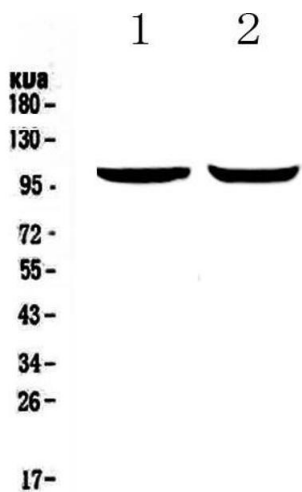
## Handling

|                 |                                                                        |
|-----------------|------------------------------------------------------------------------|
| Format:         | Lyophilized                                                            |
| Reconstitution: | Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL. |

Handling

|                    |                                                                                                                                                                                                          |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Concentration:     | 500 µg/mL                                                                                                                                                                                                |
| Buffer:            | Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05 mg NaN <sub>3</sub> .                                                                                     |
| 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:           | 4 °C,-20 °C                                                                                                                                                                                              |
| Storage Comment:   | Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month.<br>It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles. |

Images



Western Blotting

**Image 1.** Western blot analysis of Dynamin 2 using anti-Dynamin 2 antibody . Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each Lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat brain tissue lysates, Lane 2: mouse brain tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Dynamin 2 antigen affinity purified polyclonal antibody (Catalog # ) at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Dynamin 2 at approximately 100KD. The expected band size for Dynamin 2 is at 98KD.