

Anti-Dynamin 2/DNM2 Antibody Picoband™

Catalog Number: A01629-3

About DNM2

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.

Overview

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| Product Name | Anti-Dynamin 2/DNM2 Antibody Picoband™ |
| Reactive Species | Human |
| Description | Boster Bio Anti-Dynamin 2/DNM2 Antibody Picoband™ catalog # A01629-3. Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Human. |
| Application | ELISA, Flow Cytometry, WB |
| Clonality | Polyclonal |
| Formulation | Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ . |
| Storage Instructions | At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing. |
| Host | Rabbit |
| Uniprot ID | P50570 |

Technical Details

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| Immunogen | E.coli-derived human Dynamin 2/DNM2 recombinant protein (Position: N498-R785). |
| Predicted Reactive Species | Human |
| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot. |
| Cross Reactivity | No cross-reactivity with other proteins. |
| Isotype | Rabbit IgG |
| Form | Lyophilized |
| | |

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| Concentration | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. |
| Purification | Immunogen affinity purified. |
| Suggested Dilutions | <p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.25-0.5 ug/ml, Human</p> <p>Flow Cytometry, 1-3 ug/1x10⁶ cells, Human</p> <p>Direct ELISA, 0.1-0.5 ug/ml, Human</p> |

Anti-Dynamin 2/DNM2 Antibody Picoband™ (A01629-3) Images

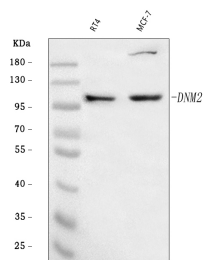


Figure 1. Western blot analysis of Dynamin 2/DNM2 using anti-Dynamin 2/DNM2 antibody (A01629-3). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human RT4 whole cell lysates,

Lane 2: human MCF-7 whole cell lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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/DNM2 antigen affinity purified polyclonal antibody (Catalog # A01629-3) at 0.5 ug/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 1:5000 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/DNM2 at approximately 100 kDa. The expected band size for Dynamin 2/DNM2 is at 98 kDa.

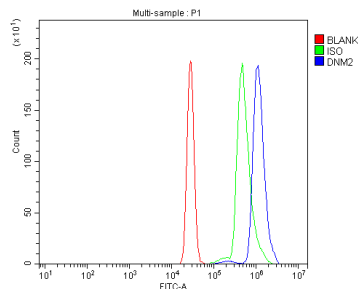


Figure 2. Flow Cytometry analysis of U937 cells using anti-Dynamin 2/DNM2 antibody (A01629-3).

Overlay histogram showing U937 cells stained with A01629-3 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Dynamin 2/DNM2 Antibody (A01629-3, 1 ug/1x10⁶ cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

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