

# Product Datasheet

## Dynamin Antibody (3G4B6)

### NB110-60491

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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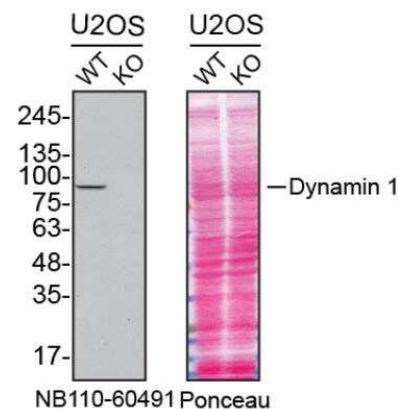
**NB110-60491**

Dynamamin Antibody (3G4B6)

Product Information	
Unit Size	0.1 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	3G4B6
Preservative	0.03% Sodium Azide
Isotype	IgG2a
Purity	Unpurified
Buffer	Ascites
Target Molecular Weight	97 kDa
Product Description	
Host	Mouse
Gene ID	1759
Gene Symbol	DNM1
Species	Human, Mouse
Immunogen	Purified recombinant fragment of human Dynamamin expressed in E. coli. [UniProt# Q05193]
Product Application Details	
Applications	Western Blot, Simple Western, ELISA, Flow Cytometry, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation, Knockout Validated
Recommended Dilutions	Western Blot 1:500- 1:2000, Simple Western 1:50, Flow Cytometry 1 ug per million cells, ELISA 1:10000, Immunohistochemistry 1:10-1:500, Immunoprecipitation, Immunohistochemistry-Paraffin 1:200- 1:1000, Immunohistochemistry-Frozen 1:200- 1:1000, Knockout Validated
Application Notes	<p>This Dynamamin (3G4B6) antibody is useful for Western Blot, Immunohistochemistry on paraffin-embedded sections and ELISA.</p> <p>In Simple Western only 10 - 15 uL of the recommended dilution is used per data point.</p> <p>See <a href="#">Simple Western Antibody Database</a> for Simple Western validation: Tested in NIH-3T3 lysate 0.5 mg/mL, separated by Size, antibody dilution of 1:50, apparent MW was 106 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.</p>

## Images

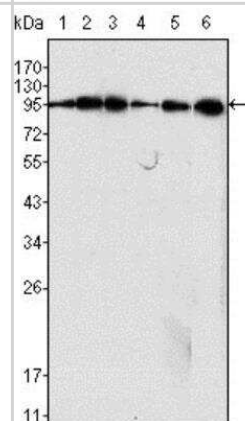
**Western Blot: Dynamin Antibody (3G4B6) [NB110-60491]** - Western blot using lysates from U2OS parental cell line and Dynamin knockout U2OS cell line (KO), collected in RIPA buffer. Nitrocellulose membrane was probed with Mouse Anti-Human/Mouse Dynamin Monoclonal Antibody (Catalog # NB110-60491) at a 1:1000 dilution O/N at 4C, followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody and ECL detection. A specific band was detected for Dynamin-1 (as indicated) in the parental U2OS cell line, but is not detectable in knockout U2OS cell line. The Ponceau stained transfers of each blot are shown to confirm equal protein loading. Image, protocol and testing courtesy of YCharOS Inc. (ycharos.com).



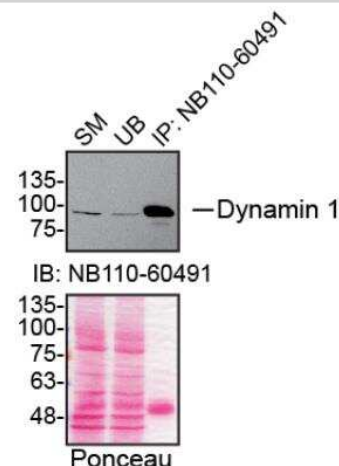
**Simple Western: Dynamin Antibody (3G4B6) [NB110-60491]** - Simple Western lane view shows a specific band for Dynamin in 0.5 mg/ml of NIH-3T3 lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



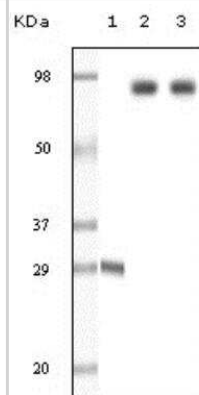
**Western Blot: Dynamin Antibody (3G4B6) [NB110-60491]** - Western blot analysis using Dynamin mouse mAb against C6 (1), NIH/3T3 (2), SKN-SH (3), LN18 (4), SHSY5Y (5) cell lysate and rat brain tissues lysate (6).



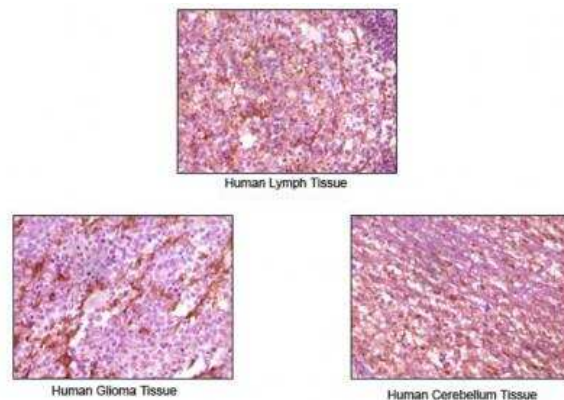
**Immunoprecipitation: Dynamin Antibody (3G4B6) [NB110-60491]** - Antibody-bead conjugates were prepared by adding 1.0 ug of antibody to 500 ul of PBS with 0,01% triton X-100 in a microcentrifuge tube and 30ul of protein G Sepharose beads. Tubes were rocked O/N at 4 degrees C followed by several washes to remove unbound antibodies. U2OS were collected in HEPES buffer (20 mM HEPES, 100 mM sodium chloride, 1 mM EDTA, 1% Triton X-100, pH 7.4) supplemented with protease inhibitor. Lysates are rocked 30 min at 4 degrees C and spun at 110,000xg for 15 min at 4 degrees C. One ml aliquots at 1 mg/ml of lysate were incubated with an antibody-bead conjugate for ~2 hrs at 4 degrees C. Following centrifugation, the unbound fractions were collected, and beads were subsequently washed three times with 1 ml of HEPES lysis buffer and processed for SDS-PAGE and immunoblot. Image, protocol and testing courtesy of YCharOS Inc. (ycharos.com).



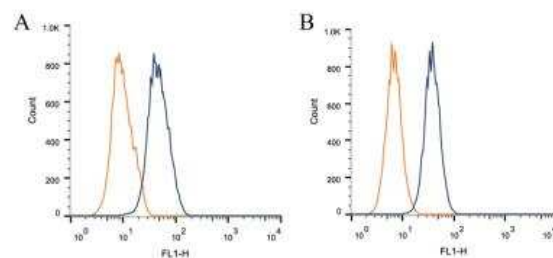
**Western Blot: Dynamin Antibody (3G4B6) [NB110-60491]** - Western blot analysis using anti-Dynamin monoclonal antibody against truncated Dynamin recombinant protein (1), SK-N-SH (2) and NIH3T3 (3) cell lysate.



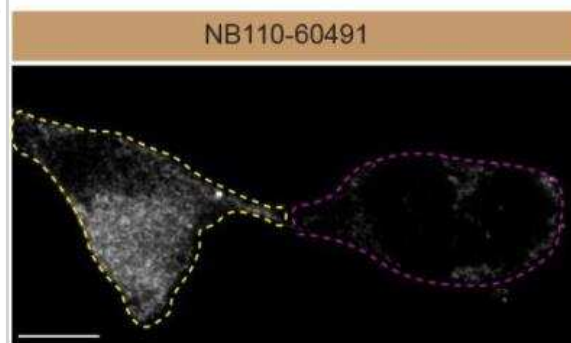
**Immunohistochemistry-Paraffin: Dynamin Antibody (3G4B6) [NB110-60491]** - Immunohistochemical analysis of paraffin-embedded human Lymph tissue, glioma tissue and cerebellum tissue, showing membrane localization using Dynamin antibody with DAB staining.



**Flow Cytometry: Dynamin Antibody (3G4B6) [NB110-60491]** - Intracellular flow cytometric staining of  $1 \times 10^6$  CHO (A) and HEK-293 (B) cells using Dynamin antibody (dark blue). Isotype control shown in orange. An antibody concentration of  $1 \mu\text{g}/1 \times 10^6$  cells was used.



**Immunocytochemistry/ Immunofluorescence: Dynamin Antibody (3G4B6) [NB110-60491]** - U2OS WT and DNM1 KO cells were labelled with a green or a far red fluorescence dye, respectively. WT and KO cells were mixed and plated to a 1 :1 ratio on coverslips. Cells were stained with and with the corresponding Alexa-fluor 555 coupled secondary antibody. Acquisition of the green (WT), red (antibody staining) and far-red (KO) channels was performed. Representative grayscale image of the red channel is shown. WT and KO cells are outlined with yellow and magenta dashed line, respectively. Antibody dilution used: 1/1000. Image, protocol and testing courtesy of YCharOS Inc. (ycharos.com).





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### **Products Related to NB110-60491**

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NB800-PC8	NIH 3T3 Whole Cell Lysate
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96778	Mouse IgG2a Isotype Control (M2A)

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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