

# Product Datasheet

## Dynamin 2 Antibody NB300-617

Unit Size: 100uL

Store at -20C. Avoid freeze-thaw cycles.

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**NB300-617**

## Dynamamin 2 Antibody

Product Information	
Unit Size	100uL
Concentration	1 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein G purified
Buffer	PBS with 1 mg/ml BSA

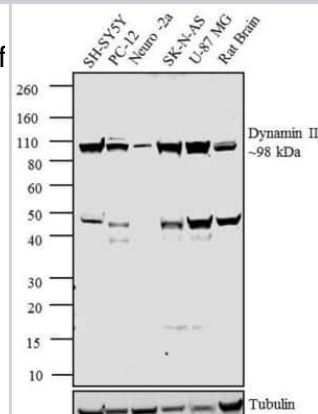
Product Description	
Description	Novus Biologicals Rabbit Dynamamin 2 Antibody (NB300-617) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-Dynamamin 2 Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	1785
Gene Symbol	DNM2
Species	Human, Mouse, Rat, Primate
Reactivity Notes	Primate reactivity reported in scientific literature (PMID: 15039342).
Specificity/Sensitivity	Dynamamin 2 - Synapse
Immunogen	Synthetic Peptide: C S(760) P T P Q R R P V S S I H P P G R P P A(779)

Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:1000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence
Application Notes	WB: Detects an approx. 100 kDa protein representing Dynamamin 2 from HeLa cell lysate.

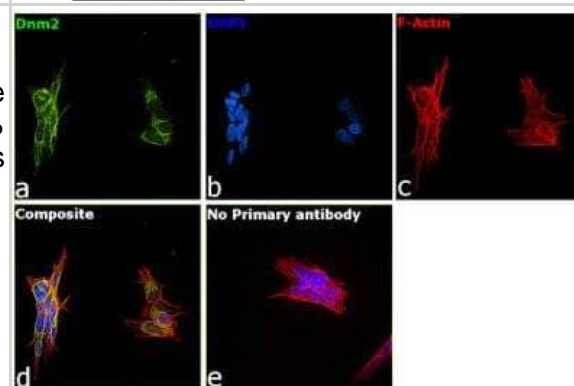


## Images

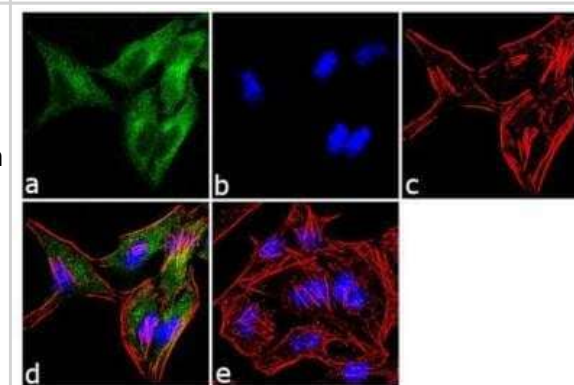
**Western Blot: Dynamin 2 Antibody [NB300-617]** - Western blot analysis of Dynamin II was performed using whole cell lysates and tissue lysate of SH-SY5Y (Lane 1), PC-12 (Lane 2), Neuro-2a (Lane 3), SK-N-AS (Lane 4), U- 87 MG (Lane 5) and Rat Brain (Lane 6). The blot was probed with Anti-Dynamin II Rabbit polyclonal Antibody and detected by chemiluminescence using Goat anti-Rabbit IgG (H+L) Secondary Antibody, HRP conjugate. A band ~98 kDa corresponding to Dynamin II was observed across cell lines and tissue lysate tested. A non specific band of ~48 KDa was observed across cell lines and tissue lysate tested except for Neuro-2a cell line.



**Immunocytochemistry/Immunofluorescence: Dynamin 2 Antibody [NB300-617]** - Immunofluorescence analysis of Dynamin 2 was performed using 70% confluent log phase SH-SY5Y cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton(TM) X-100 for 15 minutes, and blocked with 2% BSA for 45 minutes at room temperature. The cells were labeled with Dynamin 2 Polyclonal Antibody in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Goat anti-Rabbit IgG (H+L) Recombinant Secondary Antibody, Alexa Fluor(R) 488 conjugate, for 45 minutes at room temperature (Panel a: Green). Nuclei (Panel b:Blue) were stained with ProLong(TM) Diamond Antifade Mountant with DAPI F-actin (Panel c: Red) was stained with Rhodamine Phalloidin. Panel d represents the merged image showing Cytoskeletal and cytoplasmic localization. Panel e represents control cells with no primary antibody to assess background.



**Dynamin 2 Antibody [NB300-617]** - Immunofluorescence analysis of Dynamin II was performed using 70% confluent log phase HeLa cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton(TM) X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with Dynamin II Rabbit Polyclonal Antibody at 2 ug/mL in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Rabbit IgG (H+L) Superclonal(TM) Secondary Antibody, Alexa Fluor (R) 488 conjugate for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade(R) Gold Antifade Mountant with DAPI. F-actin (Panel c: red) was stained with Alexa Fluor (R) 555 Rhodamine Phalloidin . Panel d represents the merged image showing cytoplasmic localization. Panel e shows the no primary antibody control.



## Publications

Chou Ai Mei, Sem Kai Ping, Wright Graham Daniel et al. Dynamin1 is a novel target for IRSp53 protein and works with mammalian enabled (Mena) protein and Eps8 to regulate filopodial dynamics. J Biol Chem. 2014-08-29 [PMID: 25031323] (Human)

Jeon J, Leibiger I, Moede T et al. Dynamin-mediated Nephtrin Phosphorylation Regulates Glucose-stimulated Insulin Release in Pancreatic Beta Cells J Biol Chem 2012-08-17 [PMID: 22718751] (WB, Human)

Min L, Leung YM, Tomas A et al. Dynamin Is Functionally Coupled to Insulin Granule Exocytosis. J Biol Chem 2007-11-16 [PMID: 17848579]



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### **Products Related to NB300-617**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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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