

Dynamin 2 Polyclonal Antibody

| Product Details | |
|--------------------|--|
| Size | 100 µL |
| Species | Human, Mouse, Rat |
| Published Species | Rat, Non-human primate, Human, Mouse |
| Expression System | Rabbit / IgG |
| Class | Polyclonal |
| Type | Antibody |
| Conjugate | Unconjugated |
| 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) |
| Form | Liquid |
| Concentration | 1 mg/mL |
| Purification | Protein G |
| Storage buffer | PBS with 1mg/mL BSA |
| Contains | 0.05% sodium azide |
| Storage Conditions | -20° C, Avoid Freeze/Thaw Cycles |
| RRID | AB_2293040 |

| Applications | Tested Dilution | Publications |
|----------------------------|-----------------|-----------------|
| Immunocytochemistry (ICC) | 1:100 | 1 Publication |
| Immunofluorescence (IF) | 1:100 | - |
| Western Blot (WB) | 2-4 µg/mL | 10 Publications |
| Immunohistochemistry (IHC) | - | 1 Publication |

Product Specific Information

PA1-661 detects dynamin II (Dyn2) from rat, mouse, and human tissues and cells.

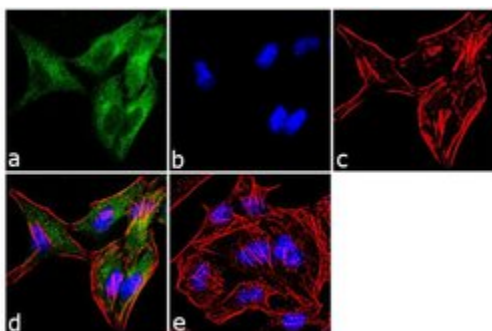
PA1-661 has been successfully used in Western blot procedures. By Western blot, this antibody detects an ~100 kDa protein representing Dyn2 from HeLa cell lysate.

PA1-661 immunizing peptide corresponds to amino acid residues 760-779 from human Dyn2. This sequence is 95% conserved in mouse and rat Dyn2. PA1-661 immunizing peptide (Cat. # PEP-056) is available for use in neutralization and control experiments.

Product Images For Dynamin 2 Polyclonal Antibody

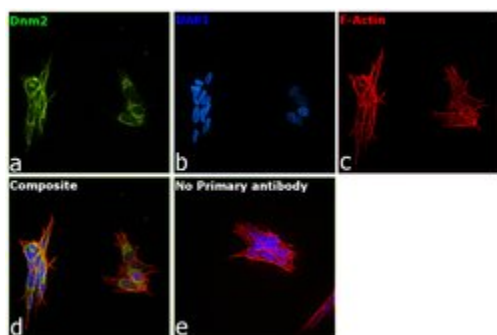
Dynamin 2 Antibody (PA1-661) in IF

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™ 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 (Product # PA1-661) at 2 µg/mL in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034) a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Alexa Fluor® 555 Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing cytoplasmic localization. Panel e shows the no primary antibody control. The images were captured at 60X magnification.



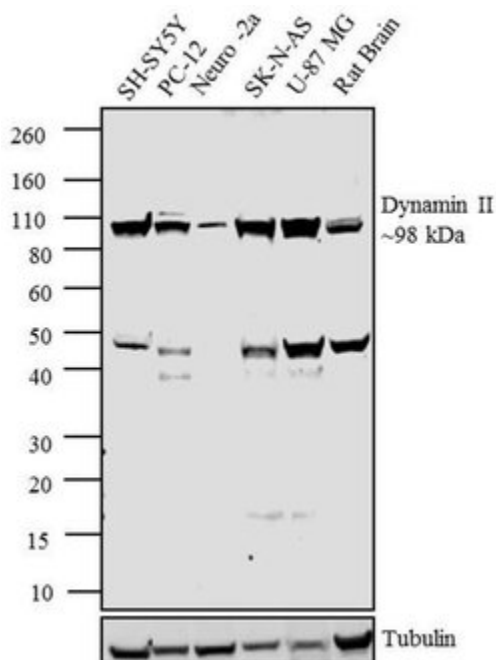
Dynamin 2 Antibody (PA1-661) in ICC

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™ 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 (Product # PA1-661) at 1:100 in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Goat anti-Rabbit IgG (H+L) Superclonal™ Recombinant Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034), (1:2000), for 45 minutes at room temperature (Panel a: Green). Nuclei (Panel b:Blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: Red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing Cytoskeletal and cytoplasmic localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



Dynamin 2 Antibody (PA1-661) in WB

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 (Product # PA1-661, 2 µg/mL) and detected by chemiluminescence using Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.4 µg/mL, 1:2500 dilution). 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. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0321BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane by overnight transfer method. The membrane was probed with the relevant primary and secondary Antibody using iBind™ Flex Western Starter Kit (Product # SLF2000S). Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).



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12 References

Western Blot (10)

eLife

Small molecule induced oligomerization, clustering and clathrin-independent endocytosis of the dopamine transporter.

"PA1-661 was used in Western Blotting to suggest that AIM-100 augments dopamine transporters (DAT) oligomerization through an allosteric mechanism associated with the DAT conformational state."

Authors: Sorkina T, Ma S, Larsen MB, Watkins SC, Sorkin A

Species
Human

Dilution
Not Cited

Year
2018

EMBO reports

SNX18 regulates ATG9A trafficking from recycling endosomes by recruiting Dynamin-2.

"Published figure using Dynamin 2 polyclonal antibody (Product # PA1-661) in Western Blot"

Authors: Sørensen K, Munson MJ, Lamb CA, Bjørndal GT, Pankiv S, Carlsson SR, Tooze SA, Simonsen A

Species
Human

Dilution
1:1,000

Year
2018

[View more WB references on thermofisher.com](#)

Immunohistochemistry (1)

Visual neuroscience

Protein partners of dynamin-1 in the retina.

"PA1-661 was used in immunohistochemistry and western blot to identify protein binding partners of retinal dynamin-1"

Authors: Grossman GH, Ebke LA, Beight CD, Jang GF, Crabb JW, Hagstrom SA

Species
Mouse
Not Applicable

Dilution
1:1000
Not Cited

Year
2013

Immunocytochemistry (1)

American journal of physiology. Renal physiology

Aquaporin-2 localization in clathrin-coated pits: inhibition of endocytosis by dominant-negative dynamin.

"PA1-661 was used in immunocytochemistry to investigate the aquaporin-2 localization in clathrin-coated pits."

Authors: Sun TX, Van Hoek A, Huang Y, Bouley R, McLaughlin M, Brown D

Species
Rat

Dilution
Not Cited

Year
2002

More applications with references on thermofisher.com

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