

Anti-Dynamin 2 antibody ab3457

★★★★★ [5 Abreviews](#) [45 References](#) [5 图像](#)

概述

产品名称	Anti-Dynamin 2抗体
描述	兔多克隆抗体to Dynamin 2
宿主	Rabbit
经测试应用	适用于: WB, ICC/IF, IHC-P
种属反应性	与反应: Mouse, Rat, Human, Non human primates 预测可用于: Cow 
免疫原	Synthetic peptide corresponding to Human Dynamin 2 aa 760-779. Sequence: SPTPQRRPVSSIHPPGRPPA (Peptide available as ab4985) Run BLAST with Run BLAST with
阳性对照	WB: SH-SY5Y, PC-12, Neuro 2a, SK-N-AS, U-87 MG, rat brain tissue; ICC/IF: SH-SY5Y, HeLa; IHC: human lung tissue.
常规说明	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
存储溶液	Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 99% PBS
纯度	Immunogen affinity purified
克隆	多克隆

同种型

IgG

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab3457于以下的经测试应用

“应用说明”部分下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		Use at an assay dependent concentration.
ICC/IF	★★★★★ (4)	Use at an assay dependent concentration.
IHC-P		Use a concentration of 1 µg/ml.

靶标

功能 Microtubule-associated force-producing protein involved in producing microtubule bundles and able to bind and hydrolyze GTP. Most probably involved in vesicular trafficking processes, in particular endocytosis.

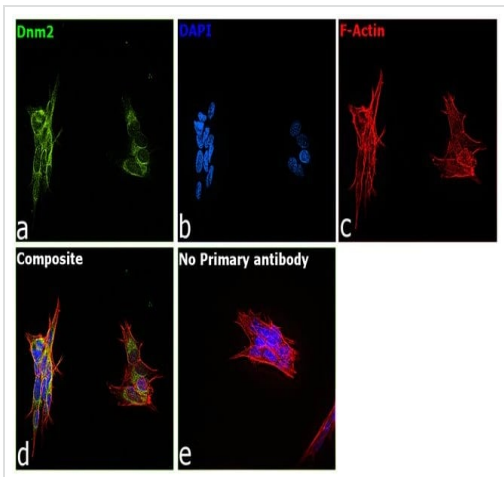
组织特异性 Ubiquitously expressed.

疾病相关 Defects in DNM2 are a cause of centronuclear myopathy autosomal dominant (ADCNM) [MIM:160150]; also known as autosomal dominant myotubular myopathy. Centronuclear myopathies (CNMs) are congenital muscle disorders characterized by progressive muscular weakness and wasting involving mainly limb girdle, trunk, and neck muscles. It may also affect distal muscles. Weakness may be present during childhood or adolescence or may not become evident until the third decade of life. Ptosis is a frequent clinical feature. CNMs comprise a wide spectrum of phenotypes, ranging from severe neonatal to mild late-onset familial forms. The most prominent histopathologic features include high frequency of centrally located nuclei in muscle fibers not secondary to regeneration, radial arrangement of sarcoplasmic strands around the central nuclei, and predominance and hypotrophy of type 1 fibers.
Defects in DNM2 are the cause of Charcot-Marie-Tooth disease dominant intermediate type B (CMTDIB) [MIM:606482]. Charcot-Marie-Tooth disease (CMT) is a clinically and genetically heterogeneous disorder of the peripheral nervous system, characterized by progressive weakness and atrophy, initially of the peroneal muscles and later of the distal muscles of the arms. CMTDIB is a form of Charcot-Marie-Tooth disease characterized by clinical and pathologic features intermediate between demyelinating and axonal peripheral neuropathies, and motor median nerve conduction velocities ranging from 25 to 45 m/sec.

序列相似性 Belongs to the dynamin family.
Contains 1 GED domain.
Contains 1 PH domain.

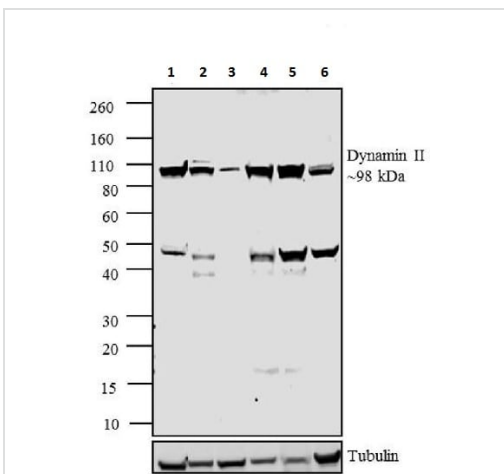
细胞定位 Cytoplasm. Cytoplasm > cytoskeleton. Cell junction > synapse > postsynaptic cell membrane > postsynaptic density. Cell junction > synapse. Microtubule-associated. Also found in the postsynaptic density of neuronal cells.

图片



Immunocytochemistry/ Immunofluorescence - Anti-Dynamin 2 antibody (ab3457)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized SH-SY5Y cells labeling Dynamin 2 with ab3457 at 1/100 dilution followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) secondary antibody at 1/2000 dilution (green). The nuclear counterstain is DAPI (blue), and F-actin is stained with Rhodamine Phalloidin at 1/300 dilution (red). Negative control was cells without primary antibody present.



Western blot - Anti-Dynamin 2 antibody (ab3457)

All lanes : Anti-Dynamin 2 antibody (ab3457)

Lane 1 : SH-SY5Y whole cell lysate

Lane 2 : PC-12

Lane 3 : Neuro-2a

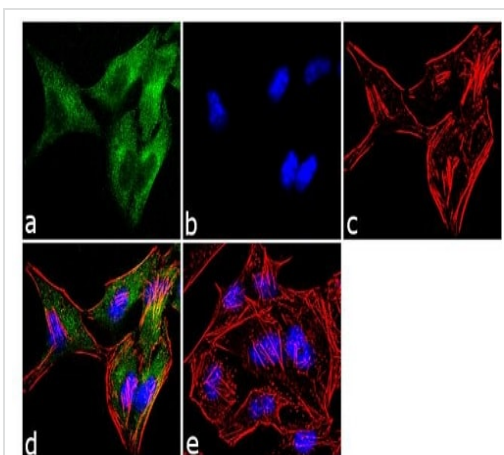
Lane 4 : SK-N-AS

Lane 5 : U- 87 MG

Lane 6 : Rat Brain

Secondary

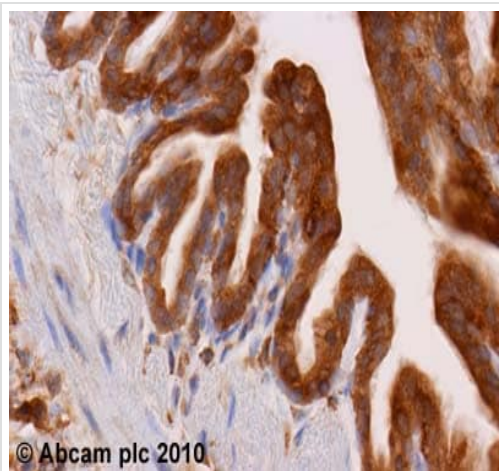
All lanes : Goat anti-Rabbit IgG (H+L) HRP conjugated



Immunocytochemistry/ Immunofluorescence - Anti-Dynamin 2 antibody (ab3457)

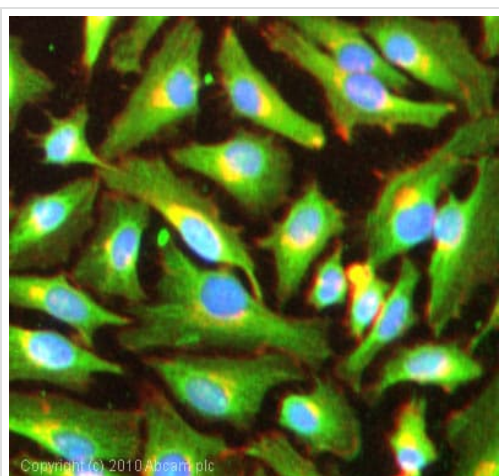
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa cells labeling Dynamin 2 with ab3457 at 2 ug/ml followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) secondary antibody at 1/2000 dilution (green). The nuclear counterstain is DAPI.

The nuclear counterstain is DAPI.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Dynamin 2 antibody (ab3457)

ab3457 (1µg/ml) staining Dynamin 2 in human lung using an automated system (DAKO Autostainer Plus). Sections were rehydrated and antigen retrieved with the Dako 3 in 1 AR buffers EDTA pH 9.0 in a DAKO PT link. Slides were peroxidase blocked in 3% H₂O₂ in methanol for 10 mins. They were then blocked with Dako Protein block for 10 minutes (containing casein 0.25% in PBS) then incubated with primary antibody for 20 min and detected with Dako envision flex amplification kit for 30 minutes. Colorimetric detection was completed with Diaminobenzidine for 5 minutes. Slides were counterstained with Haematoxylin and coverslipped under DePeX. Please note that, for manual staining, optimization of primary antibody concentration and incubation time is recommended. Signal amplification may be required.



Immunocytochemistry/ Immunofluorescence - Anti-Dynamin 2 antibody (ab3457)

ICC/IF image of ab3457 stained HeLa cells. The cells were 100% methanol fixed (5 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab3457, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.cn/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors