

### Anti-DCTN1/p150-glued antibody [EPR26464-28] ab302629

重组 RabMAb

#### 15 图像

#### 概述

产品名称	Anti-DCTN1/p150-glued抗体[EPR26464-28]
描述	兔单克隆抗体[EPR26464-28] to DCTN1/p150-glued
宿主	Rabbit
特异性	IHC application not suitable for human and rat species.
经测试应用	适用于: WB, IHC-P, IHC-Fr, ICC/IF, Flow Cyt (Intra), IP
种属反应性	与反应: Mouse, Human 不与反应: Rat
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: HeLa transfected with siRNA specifically targeting DCTN1 and a scrambled siRNA control, Neuro-2a, and NIH/3T3 whole cell lysates, mouse brain and cerebellum tissue lysates. IHC-P: Mouse cerebrum, spinal cord, and dorsal root ganglion FFPE tissue sections. IHC-Fr: Mouse spinal cord fresh frozen tissue section. ICC/IF: HeLa and Neuro-2a cell lines. Flow Cyt (Intra): HeLa and Neuro-2a cell lines. IP: HeLa and Neuro-2a whole cell lysates.
常规说明	<p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact <a href="mailto:orders@abcam.com">orders@abcam.com</a>.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

#### 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 long term. Avoid freeze / thaw cycle.
存储溶液	pH: 7.20

	Preservative: 0.01% Sodium azide
	Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR26464-28
同种型	IgG

应用

The Abpromise guarantee      **Abpromise™**承诺保证使用ab302629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		1/1000. Detects a band of approximately 150 kDa (predicted molecular weight: 141 kDa).
IHC-P		1/1000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
IHC-Fr		1/100.
ICC/IF		1/50.
Flow Cyt (Intra)		1/50.
IP		1/30.

靶标

功能	Required for the cytoplasmic dynein-driven retrograde movement of vesicles and organelles along microtubules. Dynein-dynactin interaction is a key component of the mechanism of axonal transport of vesicles and organelles.
组织特异性	Brain.
疾病相关	<p>Defects in DCTN1 are the cause of distal hereditary motor neuronopathy type 7B (HMN7B) [MIM:607641]; also known as progressive lower motor neuron disease (PLMND). HMN7B is a neuromuscular disorder. Distal hereditary motor neuronopathies constitute a heterogeneous group of neuromuscular disorders caused by selective degeneration of motor neurons in the anterior horn of the spinal cord, without sensory deficit in the posterior horn. The overall clinical picture consists of a classical distal muscular atrophy syndrome in the legs without clinical sensory loss. The disease starts with weakness and wasting of distal muscles of the anterior tibial and peroneal compartments of the legs. Later on, weakness and atrophy may expand to the proximal muscles of the lower limbs and/or to the distal upper limbs.</p> <p>Defects in DCTN1 are a cause of susceptibility to amyotrophic lateral sclerosis (ALS) [MIM:105400]. ALS is a neurodegenerative disorder affecting upper and lower motor neurons, and resulting in fatal paralysis. Sensory abnormalities are absent. Death usually occurs within 2 to 5 years. The etiology is likely to be multifactorial, involving both genetic and environmental factors.</p> <p>Defects in DCTN1 are the cause of Perry syndrome (PERRYS) [MIM:168605]; also called</p>

parkinsonism with alveolar hypoventilation and mental depression. Perry syndrome is a neuropsychiatric disorder characterized by mental depression not responsive to antidepressant drugs or electroconvulsive therapy, sleep disturbances, exhaustion and marked weight loss. Parkinsonism develops later and respiratory failure occurred terminally.

#### 序列相似性

Belongs to the dynactin 150 kDa subunit family.  
Contains 1 CAP-Gly domain.

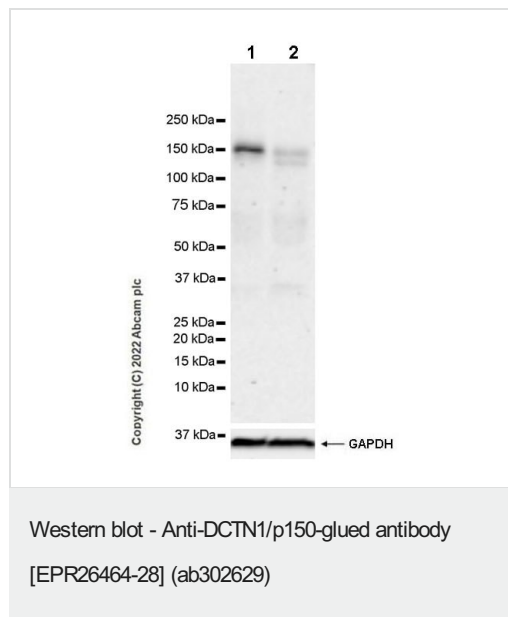
#### 翻译后修饰

Ubiquitinated by a SCF complex containing FBXL5, leading to its degradation by the proteasome.

#### 细胞定位

Cytoplasm. Cytoplasm > cytoskeleton.

#### 图片



**All lanes :** Anti-DCTN1/p150-glued antibody [EPR26464-28] (ab302629) at 1/1000 dilution

**Lane 1 :** HeLa (human cervix adenocarcinoma epithelial cell), transfected with scrambled siRNA control, whole cell lysate

**Lane 2 :** HeLa transfected with siRNA specifically targeting DCTN1, whole cell lysate

Lysates/proteins at 20 µg per lane.

#### Secondary

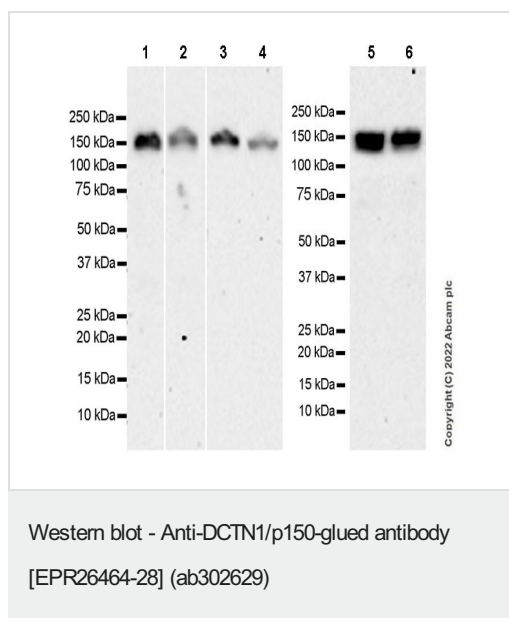
**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

**Predicted band size:** 141 kDa

**Observed band size:** 150 kDa

**Exposure time:** 114 seconds

Blocking and diluting buffer and concentration: 5% NFDM/TBST



**All lanes :** Anti-DCTN1/p150-glued antibody [EPR26464-28] (ab302629) at 1/1000 dilution

**Lane 1 :** HeLa (human cervix adenocarcinoma epithelial cell), whole cell lysate

**Lane 2 :** SH-SY5Y (human neuroblastoma epithelial cell), whole cell lysate

**Lane 3 :** Neuro-2a (mouse neuroblastoma neuroblast), whole cell lysate

**Lane 4 :** NIH/3T3 (mouse embryonic fibroblast), whole cell lysate

**Lane 5 :** Mouse brain tissue lysate

**Lane 6 :** Mouse cerebellum tissue lysate

Lysates/proteins at 20 µg per lane.

## Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

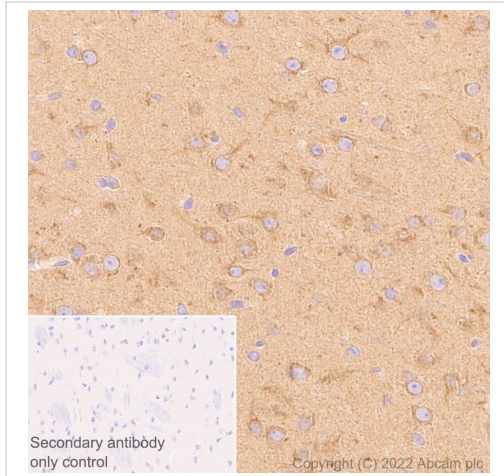
**Predicted band size:** 141 kDa

**Observed band size:** 150 kDa

**Exposure time:** 3 minutes

Blocking and diluting buffer and concentration: 5% NFDM/TBST

This blot was developed using a high sensitivity ECL substrate.

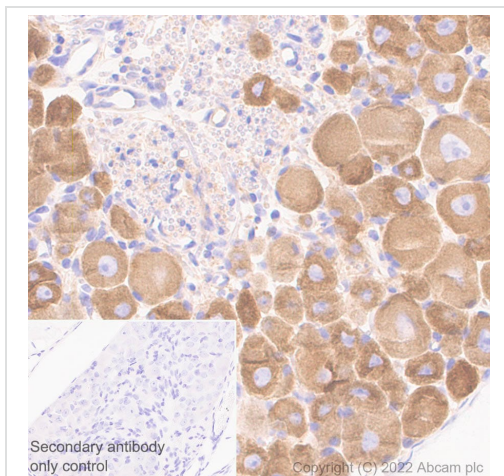


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DCTN1/p150-glued antibody [EPR26464-28] (ab302629)

Immunohistochemical analysis of paraffin-embedded mouse cerebrum tissue labeling DCTN1/p150-glued with ab302629 at 1/1000 (0.539  $\mu\text{g/ml}$ ) followed by a ready to use Leica DS9800 (Bond™ Polymer Refine Detection kit). Positive staining on mouse cerebrum (PMID:17122035). The section was incubated with ab302629 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Leica DS9800 (Bond™ Polymer Refine Detection kit).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins

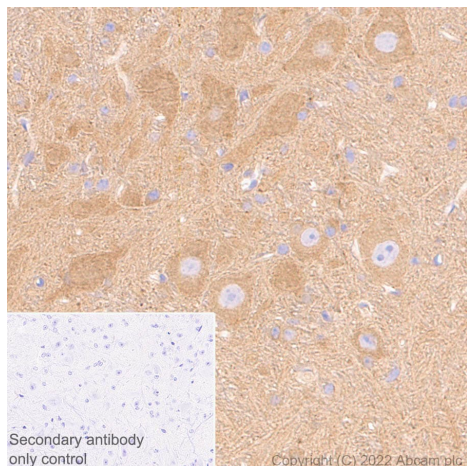


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DCTN1/p150-glued antibody [EPR26464-28] (ab302629)

Immunohistochemical analysis of paraffin-embedded mouse dorsal root ganglion tissue labeling DCTN1/p150-glued with ab302629 at 1/1000 (0.539  $\mu\text{g/ml}$ ) followed by a ready to use Leica DS9800 (Bond™ Polymer Refine Detection kit). Positive staining on mouse dorsal root ganglion (PMID:23874158). The section was incubated with ab302629 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Leica DS9800 (Bond™ Polymer Refine Detection kit).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins

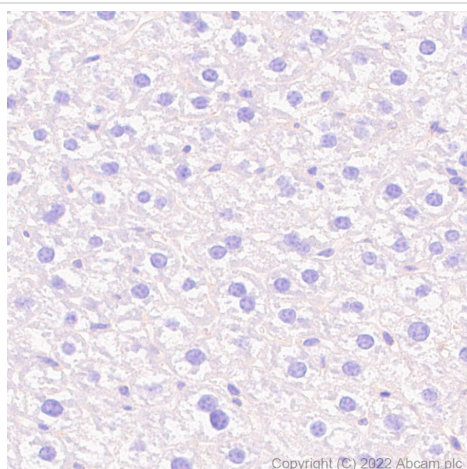


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DCTN1/p150-glued antibody [EPR26464-28] (ab302629)

Immunohistochemical analysis of paraffin-embedded mouse spinal cord tissue labeling DCTN1/p150-glued with ab302629 at 1/1000 (0.539 µg/ml) followed by a ready to use Leica DS9800 (Bond™ Polymer Refine Detection kit). Positive staining on mouse spinal cord (PMID:23408943, 17122035 ). The section was incubated with ab302629 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Leica DS9800 (Bond™ Polymer Refine Detection kit).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins



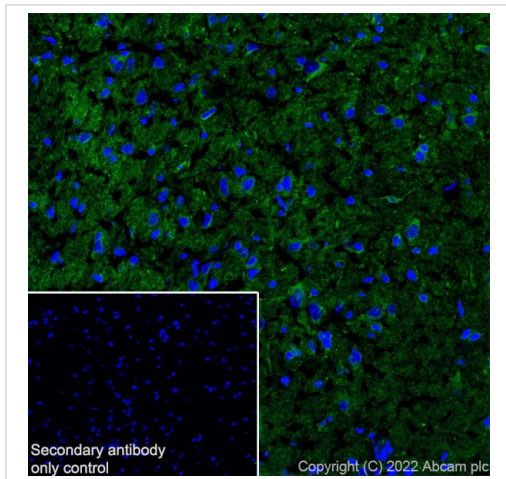
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DCTN1/p150-glued antibody [EPR26464-28] (ab302629)

Immunohistochemical analysis of paraffin-embedded mouse liver tissue labeling DCTN1/p150-glued with ab302629 at 1/1000 (0.539 µg/ml) followed by a ready to use Leica DS9800 (Bond™ Polymer Refine Detection kit). Negative control: no staining on mouse liver (PMID:1836789). The section was incubated with ab302629 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Leica DS9800 (Bond™ Polymer Refine Detection kit).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins

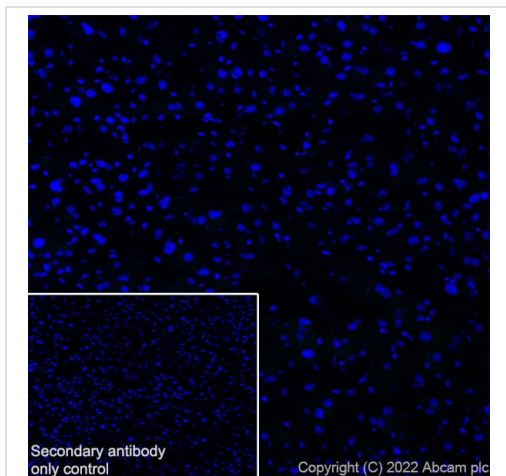




Immunohistochemistry (Frozen sections) - Anti-DCTN1/p150-glued antibody [EPR26464-28] (ab302629)

Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen mouse spinal cord (fresh) tissue labeling DCTN1/p150-glued with ab302629 at 1/100 (1.078 µg/ml) dilution followed by **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 (2 µg/ml) dilution (Green). Positive staining on mouse spinal cord is observed. The nuclear counterstain was DAPI (Blue).

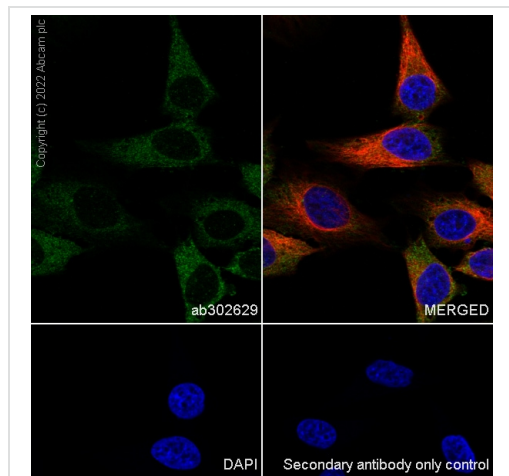
Secondary antibody control: Secondary antibody is **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 (2 µg/ml) dilution.



Immunohistochemistry (Frozen sections) - Anti-DCTN1/p150-glued antibody [EPR26464-28] (ab302629)

Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen mouse liver (fresh) tissue labeling DCTN1/p150-glued with ab302629 at 1/100 (1.078 µg/ml) dilution followed by **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 (2 µg/ml) dilution (Green). Negative control: no staining on mouse liver (PMID:1836789) is observed. The nuclear counterstain was DAPI (Blue).

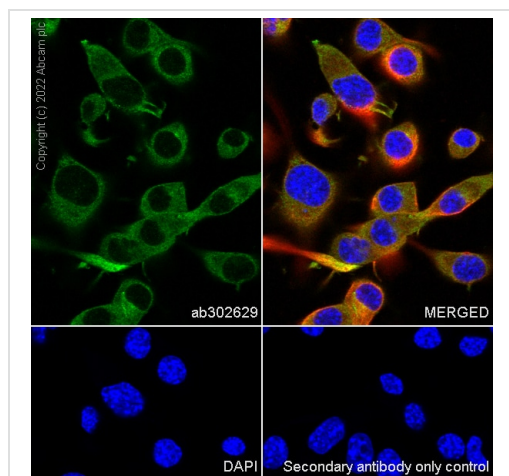
Secondary antibody control: Secondary antibody is **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 (2 µg/ml) dilution.



Immunocytochemistry/ Immunofluorescence - Anti-DCTN1/p150-glued antibody [EPR26464-28] (ab302629)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized HeLa (human cervix adenocarcinoma epithelial cell) cells labeling DCTN1/p150-glued with ab302629 at 1/50 (10.78 µg/ml) dilution, followed by **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 (2µg/ml dilution) (Green). Confocal image showing mainly cytoplasmic staining in HeLa cell line is observed. **ab195889** Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 (2.5µg/ml) dilution (Red). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 (2µg/ml) dilution.

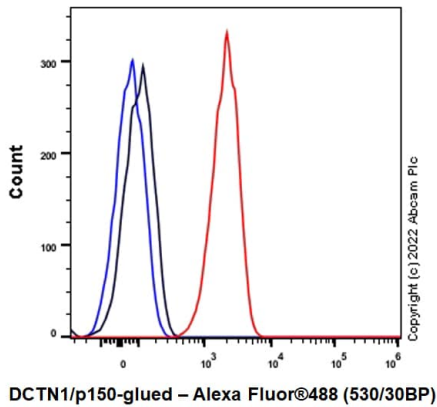


Immunocytochemistry/ Immunofluorescence - Anti-DCTN1/p150-glued antibody [EPR26464-28] (ab302629)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized Neuro-2a (mouse neuroblastoma neuroblast) cells labeling DCTN1/p150-glued with ab302629 at 1/50 (10.78 µg/ml) dilution, followed by **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 (2µg/ml) dilution (Green). Confocal image showing cytoplasmic staining in Neuro-2a cell line is observed. **ab195889** Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 (2.5µg/ml) dilution (Red). The Nuclear counterstain was DAPI (Blue).

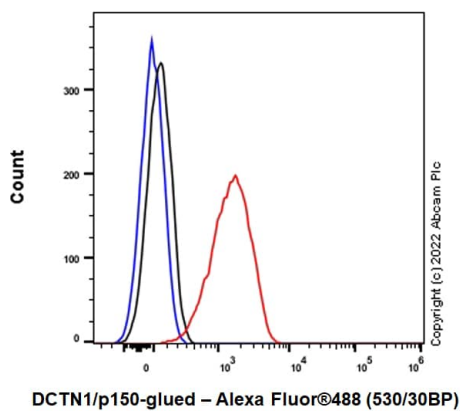
Secondary antibody only control: Secondary antibody is **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 (2µg/ml) dilution.





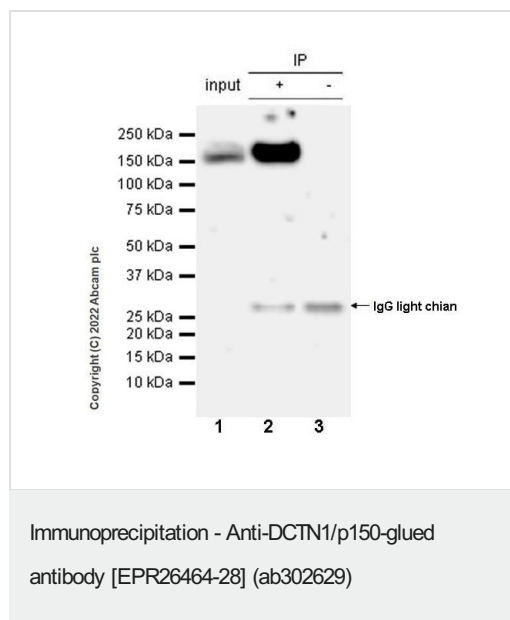
Flow Cytometry (Intracellular) - Anti-DCTN1/p150-glued antibody [EPR26464-28] (ab302629)

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized HeLa (human cervix adenocarcinoma epithelial cell) cells labeling DCTN1/p150-glued with ab302629 at 1/50 dilution (1 µg) (Red) compared with a Rabbit monoclonal IgG (**ab172730**) (Black) isotype control and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat Anti-Rabbit IgG (Alexa Fluor® 488, **ab150081**) at 1/2000 dilution was used as the secondary antibody.



Flow Cytometry (Intracellular) - Anti-DCTN1/p150-glued antibody [EPR26464-28] (ab302629)

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized Neuro-2a (mouse neuroblastoma neuroblast) cells labeling DCTN1/p150-glued with ab302629 at 1/50 dilution (1 µg) (Red) compared with a Rabbit monoclonal IgG (**ab172730**) (Black) isotype control and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat Anti-Rabbit IgG (Alexa Fluor® 488, **ab150081**) at 1/2000 dilution was used as the secondary antibody.



DCTN1/p150-glued was immunoprecipitated from 0.35 mg HeLa (human cervix adenocarcinoma epithelial cell), whole cell lysate 10 µg with ab302629 at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab302629 at 1/1000 dilution. VeriBlot for IP secondary antibody(HRP) ([ab131366](#)) was used at 1/5000 dilution.

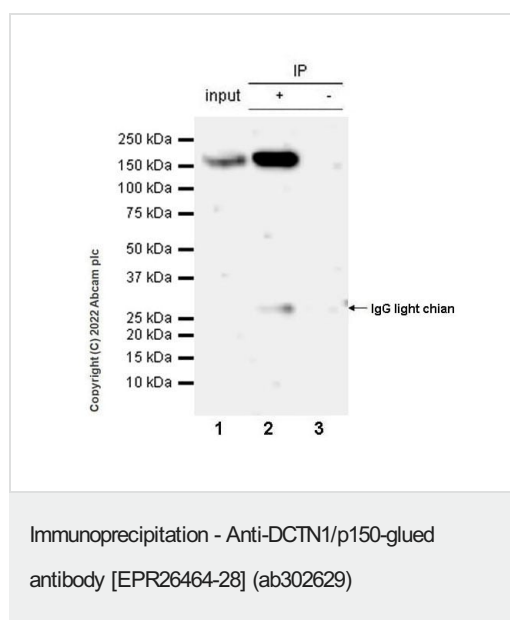
**Lane 1:** HeLa (human cervix adenocarcinoma epithelial cell), whole cell lysate 10 µg

**Lane 2:** ab302629 IP in HeLa whole cell lysate

**Lane 3:** Rabbit monoclonal IgG ([ab172730](#)) instead of ab302629 in HeLa whole cell lysate

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 3 minutes



DCTN1/p150-glued was immunoprecipitated from 0.35 mg Neuro-2a (mouse neuroblastoma neuroblast), whole cell lysate 10 µg with ab302629 at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab302629 at 1/1000 dilution. VeriBlot for IP secondary antibody(HRP) ([ab131366](#)) was used at 1/5000 dilution.

**Lane 1:** Neuro-2a (mouse neuroblastoma neuroblast), whole cell lysate 10 µg

**Lane 2:** ab302629 IP in Neuro-2a whole cell lysate

**Lane 3:** Rabbit monoclonal IgG ([ab172730](#)) instead of ab302629 in Neuro-2a whole cell lysate

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 3 minutes

Why choose a recombinant antibody?

 <p><b>Research with confidence</b> Consistent and reproducible results</p>	 <p><b>Long-term and scalable supply</b> Recombinant technology</p>
 <p><b>Success from the first experiment</b> Confirmed specificity</p>	 <p><b>Ethical standards compliant</b> Animal-free production</p>

Anti-DCTN1/p150-glued antibody [EPR26464-28]  
(ab302629)

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

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