

Product datasheet

Anti-Drebrin antibody [EPR12640(B)] ab176318

KO VALIDATED Recombinant RabMAB

5 Images

Overview

Product name	Anti-Drebrin antibody [EPR12640(B)]
Description	Rabbit monoclonal [EPR12640(B)] to Drebrin
Host species	Rabbit
Tested applications	Suitable for: IP, WB, ICC/IF Unsuitable for: Flow Cyt or IHC-P
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Rat 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	SH-SY5Y, Fetal brain, HeLa and Neuro-2a lysates, SH-SY5Y cells
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information see here . Our RabMAB [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAB[®] patents .

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
Purity	Tissue culture supernatant
Clonality	Monoclonal

Clone number EPR12640(B)
Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab176318 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IP		1/10 - 1/100.
WB		1/1000 - 1/10000. Predicted molecular weight: 71 kDa.
ICC/IF		1/100 - 1/250.

Application notes Is unsuitable for Flow Cyt or IHC-P.

Target

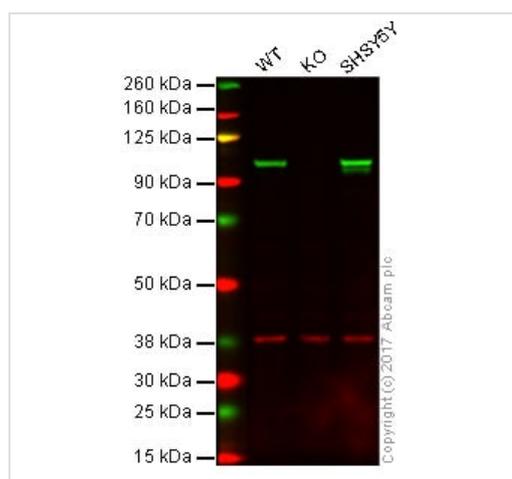
Function Drebrins might play some role in cell migration, extension of neuronal processes and plasticity of dendrites, respectively.

Tissue specificity Brain neurons. Also found in the heart, placenta, skeletal muscle, kidney and pancreas.

Sequence similarities Contains 1 ADF-H domain.

Cellular localization Cytoplasm.

Images



Western blot - Anti-Drebrin antibody [EPR12640(B)]
(ab176318)

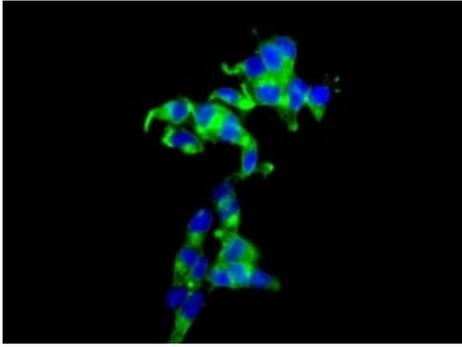
Lane 1: Wild-type HAP1 whole cell lysate (20 µg)

Lane 2: Drebrin knockout HAP1 whole cell lysate (20 µg)

Lane 3: SH-SY5Y whole cell lysate (20 µg)

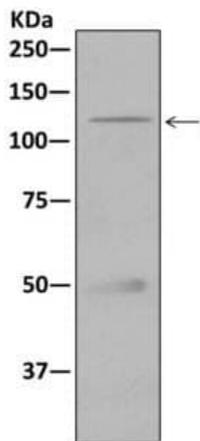
Lanes 1 - 3: Merged signal (red and green). Green - ab176318 observed at 120 kDa. Red - loading control, **ab9484**, observed at 37 kDa.

ab176318 was shown to specifically react with Drebrin in wild-type cells as signal was lost in Drebrin knockout cells. Wild-type and Drebrin knockout samples were subjected to SDS-PAGE. Ab176318 and **ab9484** (Mouse anti-GAPDH loading control) were incubated overnight at 4°C at 1/1000 dilution and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.



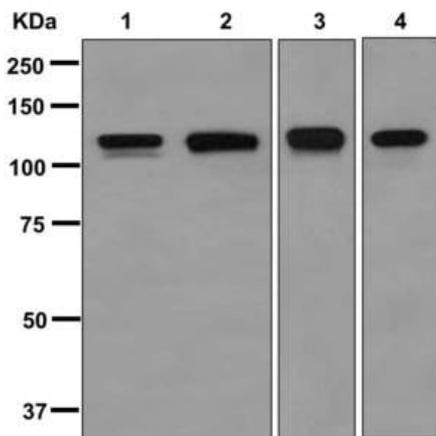
Immunocytochemistry/ Immunofluorescence - Anti-Drebrin antibody [EPR12640(B)] (ab176318)

Immunofluorescent staining of SH-SY5Y cells labeling Drebrin using ab176318 at a 1/100 dilution (green), with DAPI nuclear staining (blue).



Immunoprecipitation - Anti-Drebrin antibody [EPR12640(B)] (ab176318)

Western blot analysis on immunoprecipitation pellet from SH-SY5Y cell lysate labeling Drebrin using ab176318 at a 1/10 dilution.



Western blot - Anti-Drebrin antibody [EPR12640(B)] (ab176318)

All lanes : Anti-Drebrin antibody [EPR12640(B)] (ab176318) at 1/1000 dilution

- Lane 1** : SH-SY5Y lysate
- Lane 2** : Fetal brain lysate
- Lane 3** : HeLa lysate
- Lane 4** : Neuro-2a lysate

Predicted band size: 71 kDa

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-Drebrin antibody [EPR12640(B)] (ab176318)

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

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