

Product datasheet

Anti-Drebrin antibody [EPR12640(B)] ab176318

**KO** **VALIDATED** Recombinant RabMAB

4 Images

Overview

<b>Product name</b>	Anti-Drebrin antibody [EPR12640(B)]
<b>Description</b>	Rabbit monoclonal [EPR12640(B)] to Drebrin
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IP, WB, ICC/IF <b>Unsuitable for:</b> Flow Cyt or IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide (the amino acid sequence is considered to be commercially sensitive) within Human Drebrin aa 550 to the C-terminus (Cysteine residue). The exact sequence is proprietary. Database link: <a href="#">Q16643</a>
<b>Positive control</b>	SH-SY5Y, Fetal brain, HeLa and Neuro-2a lysates, SH-SY5Y cells
<b>General notes</b>	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> .  This product is a <a href="#">recombinant rabbit monoclonal antibody</a> .

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol, 0.05% BSA, 50% Tissue culture supernatant
<b>Purity</b>	Tissue culture supernatant
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR12640(B)
<b>Isotype</b>	IgG

Applications

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

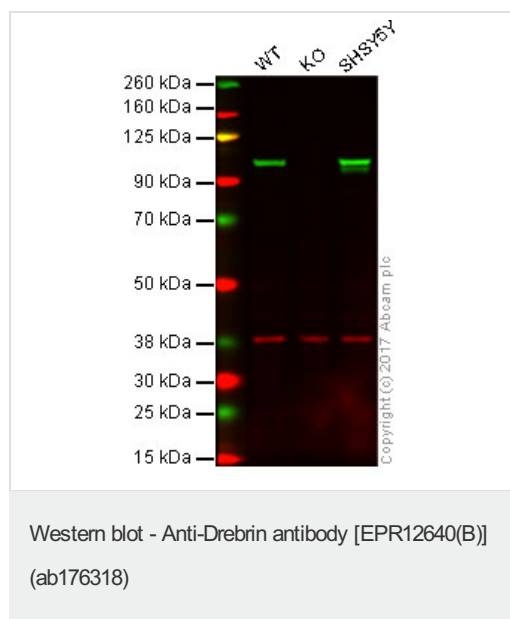
**Function** Drebrins might play some role in cell migration, extension of neuronal processes and plasticity of dendrites, respectively.

**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



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

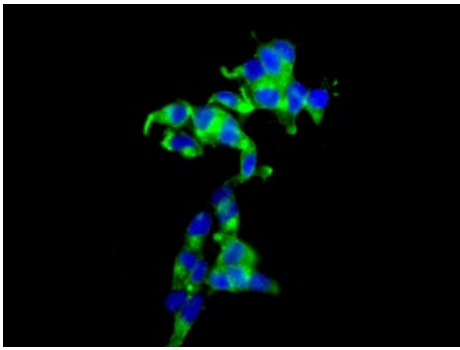
**Lane 2:** Drebrin knockout HAP1 whole cell lysate (20 µg)

**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.

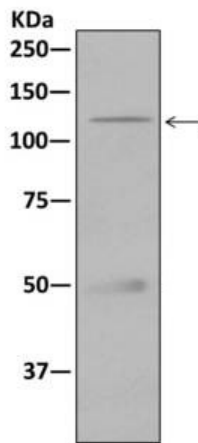
ab176318 was shown to specifically react with Drebrin in wild-type cells as signal was lost in Drebrin knockout cells. Wild-type and Drebrin knockout samples were subjected to SDS-PAGE.

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.



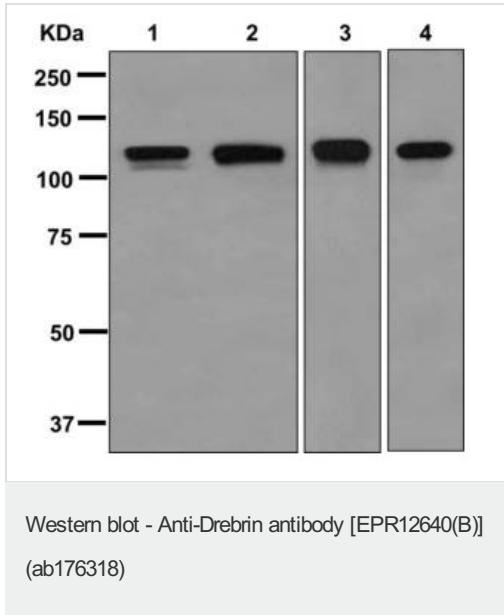
Immunocytochemistry/ Immunofluorescence - Anti-Drebrin antibody [EPR12640(B)] (ab176318)

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.



**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

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

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