

Product datasheet

Anti-Drebrin antibody [EPR12634] ab178408

KO VALIDATED

Recombinant

RabMAb

[1 References](#) [6 Images](#)

Overview

Product name	Anti-Drebrin antibody [EPR12634]
Description	Rabbit monoclonal [EPR12634] to Drebrin
Host species	Rabbit
Tested applications	Suitable for: WB, ICC/IF, IP Unsuitable for: Flow Cyt or IHC-P
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide within Human Drebrin aa 100-200 (Cysteine residue). The exact sequence is proprietary. Database link: Q16643
Positive control	Jurkat, PC-12, Neuro-2a, fetal brain, SH-SY5Y and HeLa lysates; SH-SY5Y cells; fetal brain lysate.
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	Protein A purified

Clonality	Monoclonal
Clone number	EPR12634
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab178408 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
WB		1/1000 - 1/10000. Detects a band of approximately 120 kDa (predicted molecular weight: 71 kDa).
ICC/IF		1/100 - 1/250.
IP		1/10 - 1/100.

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

Target

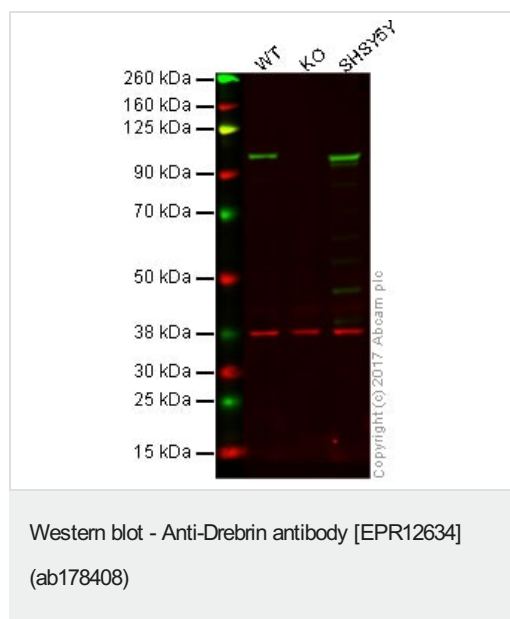
Function Drebrins might play some role in cell migration, extension of neuronal processes and plasticity of dendrites, respectively.

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)

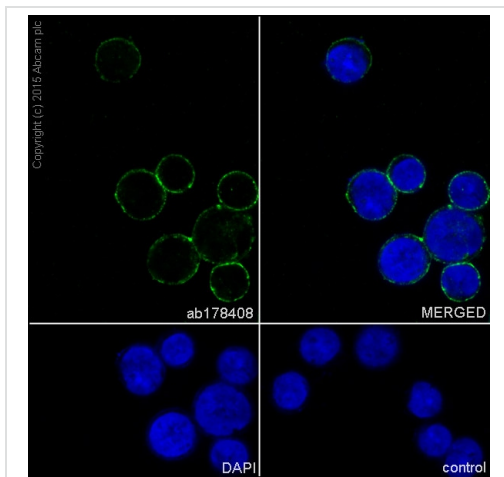
Lane 2: Drebrin knockout HAP1 whole cell lysate (20 µg)

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

Lanes 1 - 3: Merged signal (red and green). Green - ab178408 observed at 120 kDa. Red - loading control, [ab9484](#), observed at 37 kDa.

ab178408 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. Ab178408 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

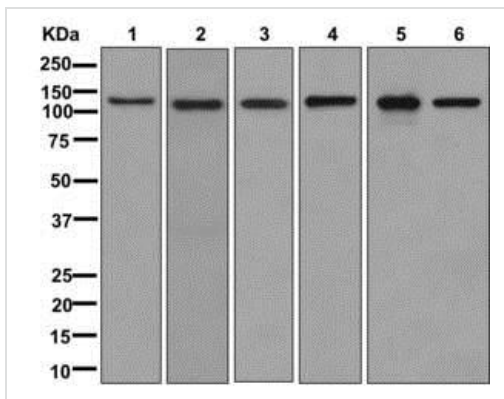
antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.



Immunocytochemistry/ Immunofluorescence - Anti-Drebrin antibody [EPR12634] (ab178408)

ab178408 staining Drebrin in Jurkat (human acute T cell leukemia) cells by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with 100% methanol and incubated with primary antibody at a dilution of 1/500. A goat anti rabbit IgG (Alexa Fluor® 488) (**ab150077**) was used as the secondary antibody at a dilution of 1/1000. DAPI was used as a nuclear counterstain.

Control: PBS only.



Western blot - Anti-Drebrin antibody [EPR12634] (ab178408)

All lanes : Anti-Drebrin antibody [EPR12634] (ab178408) at 1/1000 dilution

Lane 1 : Jurkat lysate

Lane 2 : PC-12 lysate

Lane 3 : Neuro-2a lysate

Lane 4 : Fetal brain tissue lysate

Lane 5 : SH-SY5Y cell lysate

Lane 6 : HeLa cell lysate

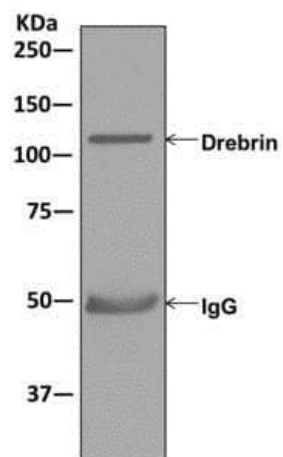
Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

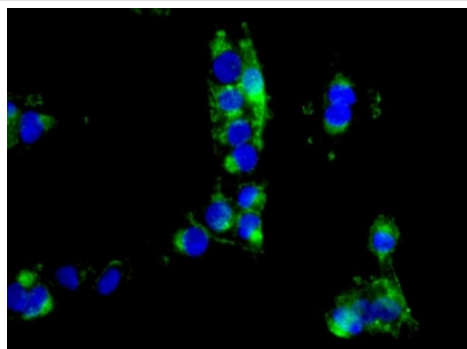
Predicted band size: 71 kDa

Additional bands at: 120 kDa. We are unsure as to the identity of these extra bands.



Immunoprecipitation - Anti-Drebrin antibody
[EPR12634] (ab178408)

Immunoprecipitation. ab178408 at 1/1000 labeling Drebrin in fetal brain lysate immunoprecipitated using ab178408 at 1/10.



Immunocytochemistry/ Immunofluorescence - Anti-Drebrin antibody [EPR12634] (ab178408)

Immunofluorescent analysis of SH-SY5Y cells labeling Drebrin with ab178408 at 1/100.

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 [EPR12634] (ab178408)

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

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