abcam

Product datasheet

Anti-Drebrin antibody [M2F6] ab12350

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概述

产品名称	Anti-Drebrin抗体[M2F6]
描述	小鼠单克隆抗体[M2F6] to Drebrin
宿主	Mouse
特异性	This antibody detects Drebrin A and E in samples from human, mouse, rat, guinea pig, and cat origins and Drebrin E only in chicken samples.
经测试应用	**适用于:** WB, IHC-P, IHC-Fr, ICC, ICC/IF, IHC-FoFr, IHC-FrFl, Flow Cyt
种属反应性	**与反应:** Mouse, Rat, Human **预测可用于:** Chicken, Guinea pig, Cat, Monkey, Quail
免疫原	Chicken Drebrin E protein.
阳性对照	Mouse Brain Tissue Extract (**ab7934**).
常规说明	**Abcam is committed to meeting high quality standards of ethical manufacturing and has decided to discontinue this product by June 2020 as it has been generated by the ascites method. We are sorry for any inconvenience this may cause. We suggest ab60933 or ab178408 or ab176318 as possible replacements.** For maximum product recovery, after thawing, centrifuge the product vial before removing cap.

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
存储溶液	Constituents: PBS, 50% Glycerol (glycerin, glycerine)
纯度	Ascites
纯化说明	Purified from ascites.
克隆	单克隆
克隆编号	M2F6
同种型	IgG1

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab12350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	★★★★☆ (5)	Use a concentration of 10 µg/ml. Detects a band of approximately 110 kDa (predicted molecular weight: 65 kDa). The difference in the size of the detected band (~110 kDa) and in the predicted (~65 kDa) is due to the large number of negatively charged residues in this protein. Block membrane with 5-10% milk for 1 hour.
IHC-P	★★★★★ (5)	1/100 - 1/500. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
IHC-Fr		Use at an assay dependent concentration.
ICC	★★★★☆ (1)	Use at an assay dependent concentration. Fix cells with 4% PFA for 15 minutes. Permeabilise cells for 15 minutes with 0.1% triton X100 in PBS (see Ikeda K et al).
ICC/IF		Use at an assay dependent concentration. See Toda et al.
IHC-FoFr		1/1000. See Keon et al.
IHC-FrFl		1/1000.
Flow Cyt		Use 1µg for 10^6 cells. **ab170190** - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

靶标

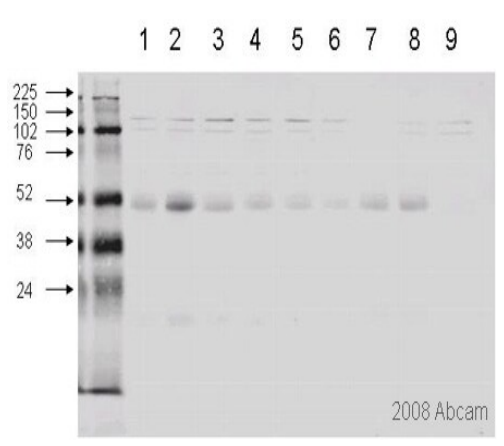
功能 Drebrins might play some role in cell migration, extension of neuronal processes and plasticity of dendrites, respectively.

组织特异性 Brain neurons. Also found in the heart, placenta, skeletal muscle, kidney and pancreas.

序列相似性 Contains 1 ADF-H domain.

细胞定位 Cytoplasm.

图片



Western blot - Anti-Drebrin antibody [M2F6] (ab12350)

This image is courtesy of an Abreview submitted by Dr Martin Broadstock

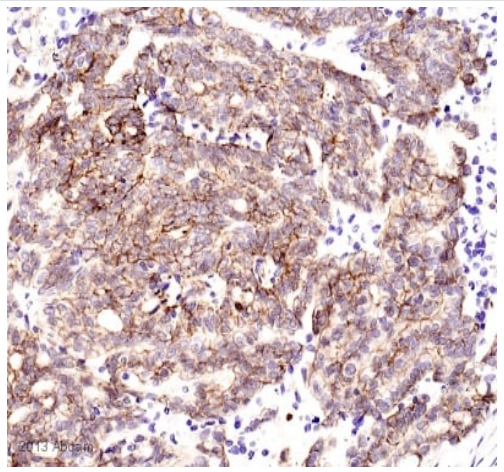
All lanes : Anti-Drebrin antibody [M2F6] (ab12350) at 1/5000 dilution

Lanes 1-4 : Trangenic (APP/PS1) male mouse cortical lysate
Lanes 5-8 : Wild-type male mouse cortical lysate
Lane 9 : Rat cortical lysate

Secondary
All lanes : Alexa-Fluor 680 conjugated goat anti-mouse IgG

Predicted band size: 65 kDa
Observed band size: 120,42,95 kDa

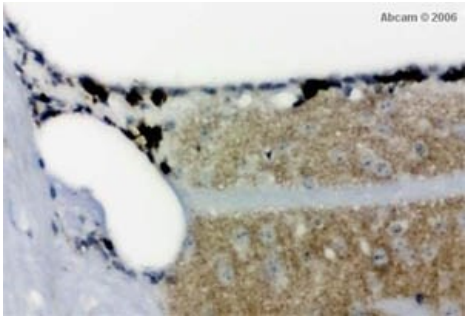
Western blot showing detection of drebrin in mouse and rat cortical lysates by ab12350.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Drebrin antibody [M2F6] (ab12350)

This image is courtesy of Carl Hobbs, King's College London, United Kingdom

IHC-P image of Drebrin staining on Human ovarian carcinoma sections using ab12350 (1:100). The sections were deparaffinized and subjected to heat mediated antigen retrieval using citric acid. The sections were blocked using 1% BSA for 10 mins at 21°C. ab12350 was diluted 1:100 in TBS buffer (containing BSA and Azide) and sections were then incubated with ab12350 for 16 hours at 21°C. The secondary antibody used was Biotin conjugated Goat polyclonal to Rabbit IgG (1:250).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Drebrin antibody [M2F6] (ab12350)

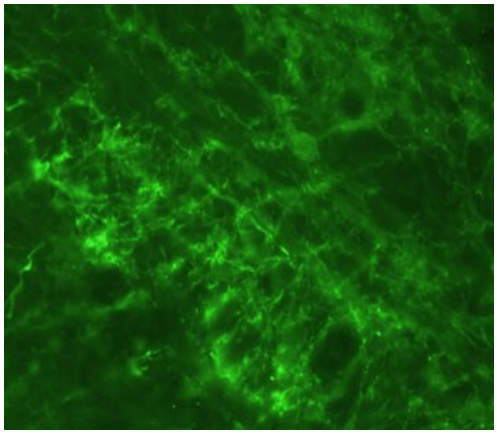
This image is courtesy of Carl Hobbs, King's College London, United Kingdom

ab12350 at 1/50 staining mouse brain tissue sections by IHC-P. The tissue fixed in 4% Formalin, diluted in Dulbecco A PBS with standard pwax processing. Citric acid 0.01M pH6 was used as antigen retrieval solution. The tissue sections were incubated with the antibody for 2 hours. A biotinylated goat polyclonal antibody was used as the secondary. The image shows the lateral ventricle showing high cytoplasmic positivity in migrating progenitor neurones in the subventricular space.There is a low level of positivity in the dendritic field of the striatum; this appears to be specific. An identical pattern of staining is seen in same area of rat brain. All non-migratory cells in the same field are negative. The Corpus Callosum is negative.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Drebrin antibody [M2F6] (ab12350)

This image is courtesy of Carl Hobbs, King's College London, United Kingdom

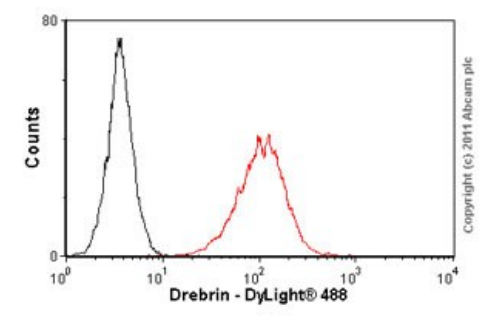
Immunohistochemistical detection (on formaldehyde/PFA-fixed paraffin-embedded sections) of Drebrin antibody [M2F6] (ab12350) on Quail Tissue sections (embryo d5/6 brain). Antigen retrieval step: Heat mediated. Blocking step: 1% BSA for 10 mins at RT. Primary Antibody: ab12350 incubated at 1/200 for 2 hours at RT. Secondary Antibody: Biotin labelled goat anti mouse Igs (1/200).



Immunohistochemistry - Free Floating - Anti-Drebrin antibody [M2F6] (ab12350)

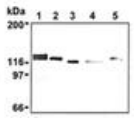
This image is courtesy of Sophie Pezet, Univ London Kings Coll, United Kingdom

Immunofluorescent staining in the rat brain cerebellum with ab12350 mouse monoclonal Drebrin antibody. Drebrin-positive neurons and fibers are observed. Picture taken with X20 objective. Protocol: IHC free-floating protocol using 4% PFA fixed brain tissue. Rats were intracardially perfused with 4% PFA. Tissue was post-fixed overnight in the same fixative, cryoprotected in 20% sucrose and frozen in OCT. Primary antibody ab12350 was used at 1/1000 incubated overnight at room temperature. Secondary antibody was Alexa Fluor 488 used at 1/1000, 2h incubation at room temperature. Image recoloured in Adobe photoshop.



Flow Cytometry - Anti-Drebrin antibody [M2F6] (ab12350)

Overlay histogram showing SH-SY5Y cells stained with ab12350 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab12350, 1µg/1x10^6 cells) for 30 min at 22ºC. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (**ab96879**) at 1/500 dilution for 30 min at 22ºC. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (**ab91353**, 2µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in SH-SY5Y cells fixed with 80% methanol (5 min)/permeabilized in 0.1% PBS-Tween used under the same conditions.



Western blot - Anti-Drebrin antibody [M2F6] (ab12350)

Western blot analysis of Drebrin expression in mouse brain (1) NIH/3T3 (2), Jurkat (3), HeLa (4), and PC12 (5) using Drebrin mAb (ab12350).

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