abcam

ab60932

Anti-Drebrin antibody [mAbcam60932]

KO Validated

Key facts

Isotype	IgG1
Host species	Mouse
Storage buffer	pH: 7.4 Preservative: 0.02% Sodium azide Constituents: PBS, 6.97% L-Arginine
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	mAbcam60932
Purification technique	Affinity purification
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1 µg for 10^6 Cells
Notes	ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Expected

Species	Rat
Dilution info	1 µg for 10^6 Cells
Notes	ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Predicted

Species	Mouse, Chicken, Quail
Dilution info	-
Notes	-

WB

Tested

Species	Rat
Dilution info	5 µg/mL
Notes	-

Species	Human
Dilution info	5 µg/mL
Notes	-

Predicted

Species	Mouse, Chicken, Quail
Dilution info	-
Notes	-

Target data

See full target information DBN1

Function	Actin cytoskeleton-organizing protein that plays a role in the formation of cell projections (PubMed:20215400). Required for actin polymerization at immunological synapses (IS) and for the recruitment of the chemokine receptor

CXCR4 to IS (PubMed:20215400). Plays a role in dendritic spine morphogenesis and organization, including the localization of the dopamine receptor DRD1 to the dendritic spines (By similarity). Involved in memory-related synaptic plasticity in the hippocampus (By similarity).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C

Notes

Want a custom formulation?
This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

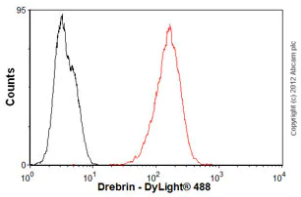
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

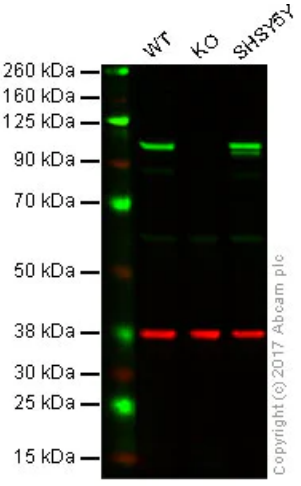
4 product images



Flow Cytometry (Intracellular) - Anti-Drebrin antibody [mAbcam60932] (ab60932)

Drebrin Flow Cytometry (Intracellular) staining using mouse Anti-Drebrin antibody

Overlay histogram showing SHSY-5Y cells stained with ab60932 (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 (ab60932, 1µg/1x10^6 cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (ab96879) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (ab91353, 1µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in SHSY-5Y cells fixed with 80% methanol (5 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.



Western blot - Anti-Drebrin antibody [mAbcam60932] (ab60932)

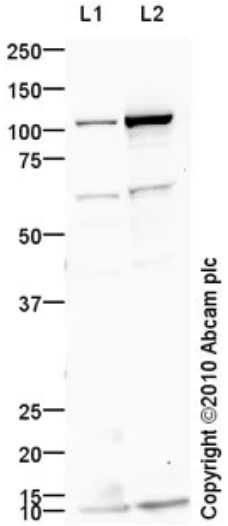
Drebrin Western blot staining using mouse Anti-Drebrin antibody

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 - ab60932 observed at 120 kDa. Red - loading control, ab181602, observed at 37 kDa.

ab60932 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. ab60932 and ab181602 (Rabbit anti-GAPDH loading control) were incubated overnight at 4°C at 5 µg/ml and 1/20000 dilution respectively. Blots were developed with Goat anti-Mouse IgG H&L (IRDye® 800CW) preabsorbed ab216772 and Goat anti-Rabbit IgG H&L (IRDye® 680RD) preabsorbed ab216777 secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.

All lanes:
Western blot - Anti-Drebrin antibody [mAbcam60932] (ab60932)

Predicted band size: 71 kDa



Western blot - Anti-Drebrin antibody [mAbcam60932] (ab60932)

ab60932 detects a band around 110-kDa. While this differs to its predicted molecular weight of 71-kDa, it is consistent with what has been described in the literature(PMID:10604653).
All lanes:
Western blot - Anti-Drebrin antibody [mAbcam60932] (ab60932) at 10 µg/mL

Lane 1:
HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate at 10 µg

Lane 2:
SHSY-5Y (Human neuroblastoma cell line) Whole Cell Lysate at 10 µg

Secondary

All lanes:
Goat polyclonal to Mouse IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

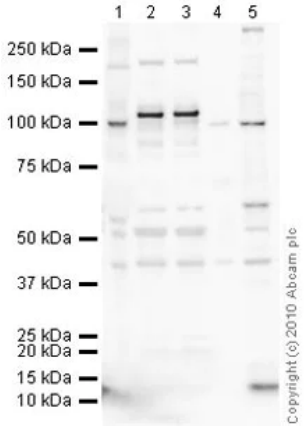
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 71 kDa

Observed band size: 10 kDa, 110 kDa, 65 kDa

Exposure time: 8min



Western blot - Anti-Drebrin antibody [mAbcam60932] (ab60932)

Drebrin Western blot staining using mouse Anti-Drebrin antibody

All lanes:
Western blot - Anti-Drebrin antibody [mAbcam60932] (ab60932) at 10 µg/mL

Lane 1:
Human Cortex Neuronal cell lysate at 10 µg

Lane 2:
Rat Cortex Neuronal cell lysate at 10 µg

Lane 3:
Rat Hippocampus Tissue Lysate at 10 µg

Lane 4:
Human skin tumor tissue lysate (melanoma) - total protein (ab29339) at 10 µg

Lane 5:
Malme 3M (Human melanoma cells) Whole Cell Lysate at 10 µg

Secondary

All lanes:
Western blot - Goat Anti-Mouse IgG H&L (HRP) preadsorbed (ab97040) at 1/5000 dilution

Predicted band size: 71 kDa

Observed band size: 100 kDa, 120 kDa, 200 kDa, 45 kDa, 50 kDa, 60 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.