

# Drebrin Monoclonal antibody

Catalog Number: 67589-1-Ig

## Basic Information

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| <b>Catalog Number:</b><br>67589-1-Ig   | <b>GenBank Accession Number:</b><br>BC007567 | <b>Purification Method:</b><br>Protein A purification                                    |
| <b>Size:</b><br>150ul, Concentration: 1100 µg/ml by Nanodrop and 500 µg/ml by Bradford method using BSA as the standard; | <b>GeneID (NCBI):</b><br>1627                | <b>CloneNo.:</b><br>1A12H1   |
| <b>Source:</b><br>Mouse  | <b>Full Name:</b><br>drebrin 1               | <b>Recommended Dilutions:</b><br>WB 1:5000-1:50000<br>IHC 1:500-1:2000<br>IF 1:200-1:800 |
| <b>Isotype:</b><br>IgG2a   | <b>Observed MW:</b><br>110-120 kDa           |  |
| <b>Immunogen Catalog Number:</b><br>AG22635  |  |  |

## Applications

### Tested Applications:

IF, IHC, WB, ELISA

### Species Specificity:

Human, mouse, rat, pig

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB:** HeLa cells, pig brain tissue, HEK-293 cells, PC-12 cells, Neuro-2a cells, rat brain tissue, mouse brain tissue

**IHC:** mouse brain tissue,

**IF:** mouse brain tissue,

## Background Information

Drebrin (DBN1) is an actin binding and stabilizing protein with roles in endocytosis, formation of dendrite spines in neurons and coordinating cell-cell synapses in immune cells. Preferentially expressed in the brain, it is highly localized in dendritic spines and regulates spine shapes. It has two isoforms that are splice variants, with drebrin A being expressed in neural cells, and drebrin E is present in several other cell types. Recently it has been reported that circulating DBN1 levels correlated with retinal nerve fiber layer defect and may reflect the severity of retinal ganglion cells injury in glaucoma patients.

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

**\*\*\* 20ul sizes contain 0.1% BSA**

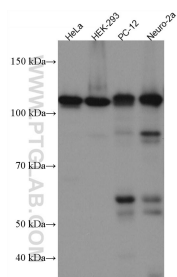
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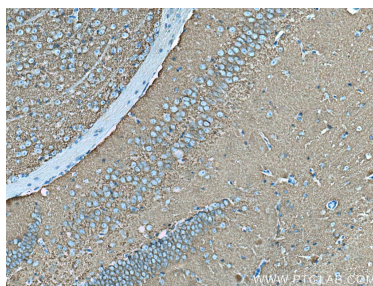
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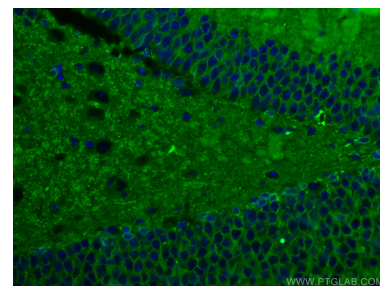
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67589-1-Ig (Drebrin antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 67589-1-Ig (Drebrin antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using Drebrin antibody (67589-1-Ig, Clone: 1A12H1) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). DAPI (blue).