

For Research Use Only

# Drebrin Recombinant antibody, PBS Only (Capture)

Catalog Number: 83591-2-PBS



## Basic Information

<b>Catalog Number:</b> 83591-2-PBS	<b>GenBank Accession Number:</b> BC000283	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 1627	<b>CloneNo.:</b> 240599G12
<b>Source:</b> Rabbit	<b>ENSEMBL Gene ID:</b> ENSG00000113758	
<b>Isotype:</b> IgG	<b>UNIPROT ID:</b> Q16643	
<b>Immunogen Catalog Number:</b> AG0371	<b>Full Name:</b> drebrin 1	
	<b>Calculated MW:</b> 71 kDa	
	<b>Observed MW:</b> 110-130 kDa	

## Applications

**Tested Applications:**  
WB, IHC, FC (Intra), Cytometric bead array, Indirect ELISA

**Species Specificity:**  
human, mouse, rat

## Product Information

83591-2-PBS targets Drebrin as part of a matched antibody pair:

MP00585-2: 83591-2-PBS capture and 83591-1-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

## 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

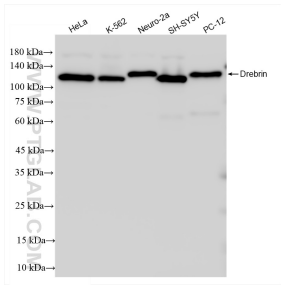
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

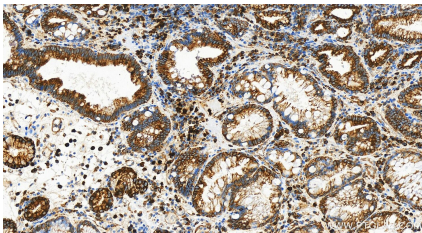
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

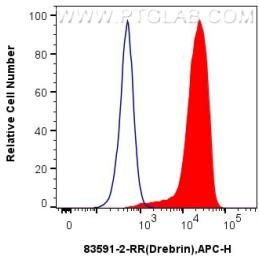
Selected Validation Data



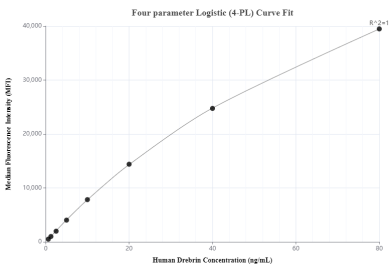
Various lysates were subjected to SDS PAGE followed by western blot with 83591-2-RR (Drebrin antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83591-2-PBS in a different storage buffer formulation.



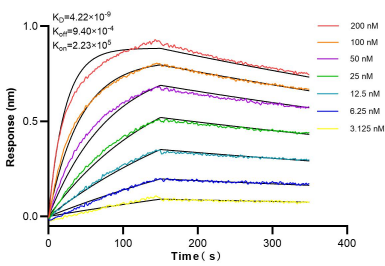
Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 83591-2-RR (Drebrin antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer(pH9). This data was developed using the same antibody clone with 83591-2-PBS in a different storage buffer formulation.



1x10<sup>6</sup> SH-SY5Y cells were intracellularly stained with 0.25 ug Drebrin Recombinant antibody (83591-2-RR, Clone:240599G12) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 83591-2-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP00585-2, Drebrin Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83591-2-PBS. Detection antibody: 83591-1-PBS. Standard: Ag0371. Range: 0.78-100 ng/mL



Biolayer interferometry (BLI) kinetic assays of 83591-2-RR against Human DHRS3 were performed. The affinity constant is 0.109 nM.