

# HIP55 Polyclonal antibody

Catalog Number: 13015-1-AP

Featured Product

5 Publications

## Basic Information

## Catalog Number:

13015-1-AP

## Size:

1400 µg/ml

## Source:

Rabbit

## Isotype:

IgG

## Immunogen Catalog Number:

AG4078

## GenBank Accession Number:

BC031687

## GeneID (NCBI):

28988

## UNIPROT ID:

Q9UJU6

## Full Name:

drebrin-like

## Calculated MW:

430 aa, 48 kDa

## Observed MW:

55 kDa

## Purification Method:

Antigen affinity purification

## Recommended Dilutions:

WB 1:500-1:3000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF/ICC 1:200-1:800

## Applications

## Tested Applications:

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

## Cited Applications:

WB, IP, IF

## Species Specificity:

human, mouse, rat

## Cited Species:

human, mouse

**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 : mouse brain tissue, HeLa cells, human heart tissue, Jurkat cells, K-562 cells, mouse heart tissue

IP : mouse brain tissue,

IHC : human breast cancer tissue,

IF/ICC : HepG2 cells,

## Background Information

HIP55, also known as DBNL, ABP1, SH3P7, belongs to the ABP1 family. HIP55 plays a role in the reorganization of the actin cytoskeleton, formation of cell projections, such as neurites, in neuron morphogenesis and synapse formation via its interaction with WASL and COBL. HIP55 acts as a key component of the immunological synapse that regulates T-cell activation by bridging TCRs and the actin cytoskeleton to gene activation and endocytic processes (PMID: 14729663). The N terminus of HIP55 contains a putative actin-binding domain found in drebrins, which are involved in brain development, and the C terminus contains an SH3 domain. Expect a band 55 kDa in size corresponding to HIP55 by western blotting.

## Notable Publications

Author	Pubmed ID	Journal	Application
Seika Inoue	30504273	J Neurosci	WB,IF,IP
Yang Sun	34331017	Acta Pharmacol Sin	WB,IP
Thomas Daubon	27231093	J Cell Sci	

## 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

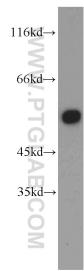
For technical support and original validation data for this product please contact:

T: 4006900926

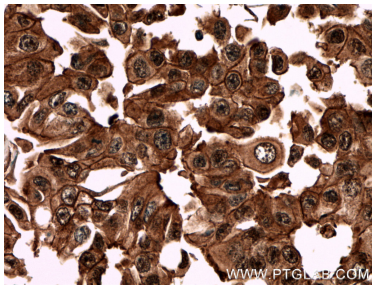
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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

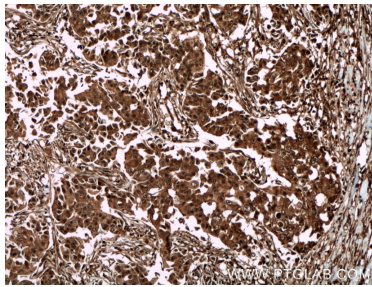
Selected Validation Data



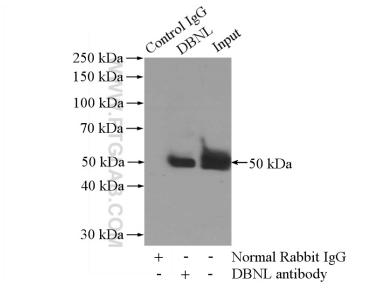
mouse brain tissue were subjected to SDS PAGE followed by western blot with 13015-1-AP (DBNL antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



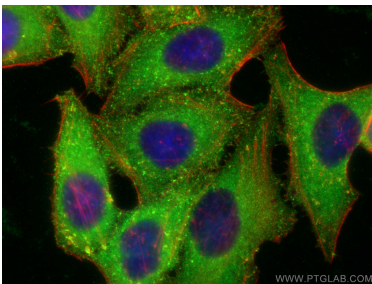
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 13015-1-AP (DBNL antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



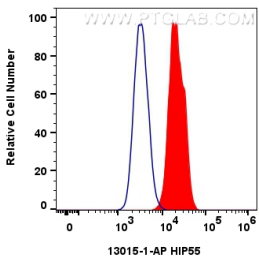
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 13015-1-AP (DBNL antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-HIP55 (IP:13015-1-AP, 4ug; Detection:13015-1-AP 1:1000) with mouse brain tissue lysate 2640ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using HIP55 antibody (13015-1-AP) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).



1x10<sup>6</sup> HepG2 cells were intracellularly stained with 0.4 ug HIP55 Polyclonal antibody (13015-1-AP) and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-O-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).