

For Research Use Only

# HIP55 Polyclonal antibody

Catalog Number: 13015-1-AP

Featured Product

5 Publications



## Basic Information

<b>Catalog Number:</b> 13015-1-AP	<b>GenBank Accession Number:</b> BC031687	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 1400 µg/ml by Nanodrop and 660 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 28988	<b>Recommended Dilutions:</b> WB 1:500-1:3000 IP 0.5-4.0 ug for IP and 1:500-1:2000 for WB
<b>Source:</b> Rabbit	<b>Full Name:</b> drebrin-Like	<b>IHC 1:50-1:500</b> <b>IF 1:20-1:200</b>
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 430 aa, 48 kDa	
<b>Immunogen Catalog Number:</b> AG4078	<b>Observed MW:</b> 55 kDa	

## Applications

**Tested Applications:**  
IF, IHC, IP, WB, ELISA

**Cited Applications:**  
IF, IP, WB

**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:** 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

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

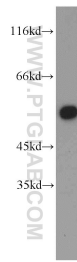
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

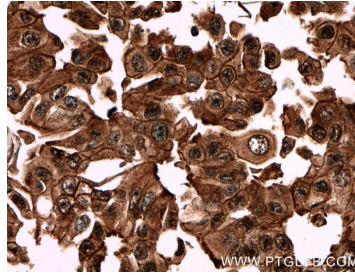
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

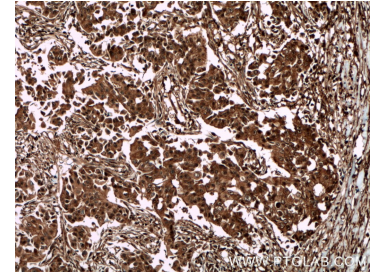
## Selected Validation Data



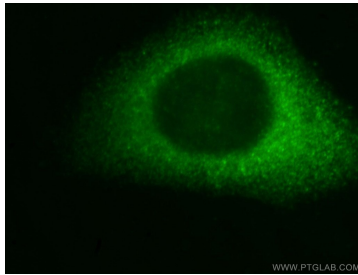
mouse brain tissue were subjected to SDS PAGE followed by western blot with 13015-1-AP (DBNL antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



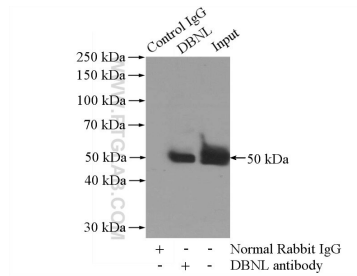
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 13015-1-AP (DBNL antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



Immunofluorescent analysis of HepG2 cells, using DBNL antibody 13015-1-AP at 1:50 dilution and FITC-labeled donkey anti-rabbit IgG (green).



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