For Research Use Only

HIP55 Polyclonal antibody

Catalog Number:13015-1-AP Featured Product 5 Publications

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
13015-1-AP

Size:
150ul , Concentration: 1400 ug/ml by Nanodrop and 660 ug/ml by Bradford method using BSA as the standard;

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 ug 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	

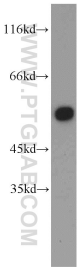
Storage

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

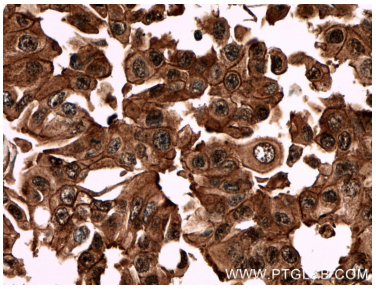
*** 20ul sizes contain 0.1% BSA

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
W: ptglab.com

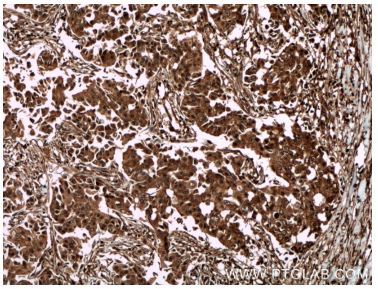
Selected Validation Data



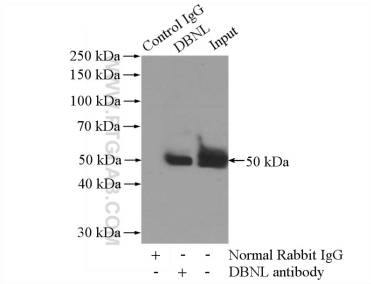
mouse brain tissue were subjected to SDS PAGE followed by western blot with 13015-1-AP (DBNL antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



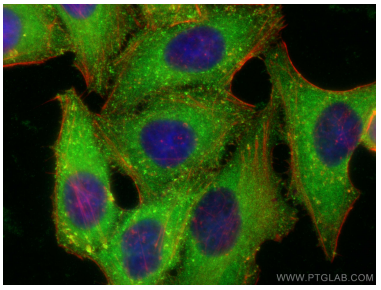
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 13015-1-AP (DBNL antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



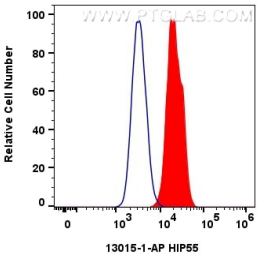
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 13015-1-AP (DBNL antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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 Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).



1x10^6 HepG2 cells were intracellularly stained with 0.4 ug HIP55 Polyclonal antibody (13015-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).