For Research Use Only

# DRG2 Polyclonal antibody

Catalog Number:14743-1-AP Featured Product 10 Publications

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

## Basic Information

Catalog Number:
14743-1-AP

Size:
150ul , Concentration: 500 µg/ml by Nanodrop and 240 µg/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG6433

GenBank Accession Number:
BC000493

GeneID (NCBI):
1819

UNIPROT ID:
P55039

Full Name:
developmentally regulated GTP binding protein 2

Calculated MW:
41 kDa

Observed MW:
41-45 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:3000-1:8000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500
IF/ICC 1:50-1:500

## Applications

Tested Applications:
WB, IHC, IF/ICC, IP, ELISA

Cited Applications:
WB, IF, IP

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat, monkey

***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 : HepG2 cells, mouse brain tissue, SMMC-7721 cells

IP : mouse brain tissue,

IHC : human kidney tissue,

IF/ICC : HepG2 cells,

## Background Information

Developmentally regulated GTP-binding protein (DRG) is a new subfamily within the superfamily of GTP-binding proteins. Its expression is regulated during embryonic development. DRG2 plays a critical role in control of the cell cycle and apoptosis (PMID:27669826, PMID:14759600). DRG2 Regulates G2/M Progression via the Cyclin B1-Cdk1 Complex.

## Notable Publications

| Author | Pubmed ID | Journal | Application |
|---|---|---|---|
| Zhijie Shen | 33294289 | Mol Ther Nucleic Acids | WB |
| Thao Dang | 30453731 | Mol Cells | WB,IF |
| Bing Si Li | 34777693 | Oxid Med Cell Longev | WB,IF,IP |

## Storage

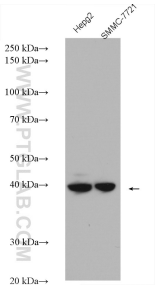
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

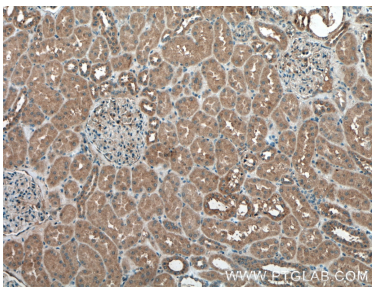
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

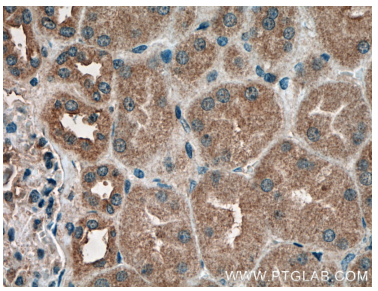
## Selected Validation Data



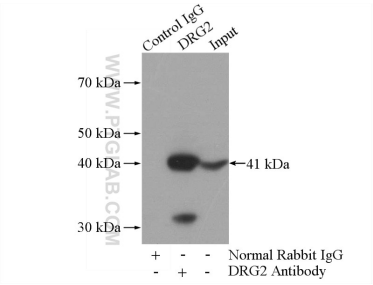

Various lysates were subjected to SDS PAGE followed by western blot with 14743-1-AP (DRG2 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



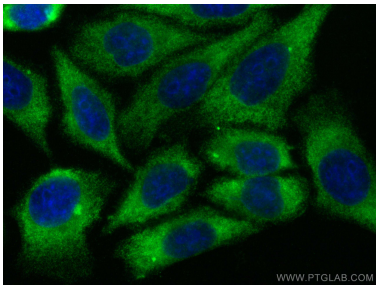

Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 14743-1-AP (DRG2 antibody) at dilution of 1:200 (under 10x lens).




Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 14743-1-AP (DRG2 antibody) at dilution of 1:200 (under 40x lens).




IP result of anti-DRG2 (IP:14743-1-AP, 4ug; Detection:14743-1-AP 1:2000) with mouse brain tissue lysate 2640ug.




Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using DRG2 antibody (14743-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).