

For Research Use Only

# HRAS-Specific Polyclonal antibody

Catalog Number: 18295-1-AP

Featured Product

64 Publications



## Basic Information

### Catalog Number:

18295-1-AP

### Source:

Rabbit

### Isotype:

IgG

### GenBank Accession Number:

BC006499

### GeneID (NCBI):

3265

### UNIPROT ID:

P01112

### Full Name:

v-Ha-ras Harvey rat sarcoma viral oncogene homolog

### Calculated MW:

21 kDa

### Observed MW:

21 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:500-1:2000

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

FC (Intra): 0.40 ug per 10<sup>6</sup> cells in a 100 µl suspension

## Applications

### Tested Applications:

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

### Cited Applications:

WB, IHC, IF, IP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat

**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 : HEK-293 cells, SH-SY5Y cells, PC-3 cells, C6 cells, mouse kidney tissue, rat tissue, NIH/3T3 cells

IP : mouse brain tissue, HEK-293 cells

IHC : human colon cancer tissue,

IF/ICC : MCF-7 cells,

FC (Intra) : HeLa cells,

## Background Information

HRAS, also named as c-bas/has and RASH1, is v-Ha-ras Harvey rat sarcoma viral oncogene homolog from the mammalian ras gene family and it is a member of the small GTPase superfamily. RAS proteins are involved in signal transduction pathways, and bind GDP/GTP and possess intrinsic GTPase activity. Defects in HRAS are a cause of cancer. The antibody is specific to HRAS, can't recognize NRAS and KRAS.

## Notable Publications

Author	Pubmed ID	Journal	Application
Andrew M Waters	28951536	Sci Signal	WB
Thomas McFall	31551296	Sci Signal	WB
Hiroshi Senoo	34551282	Mol Cell	IP

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

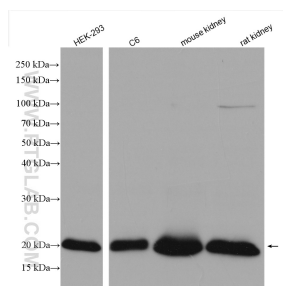
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

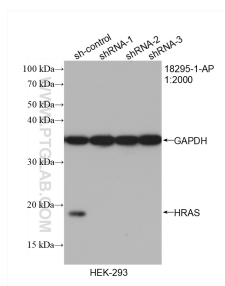
W: [ptgcn.com](http://ptgcn.com)

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

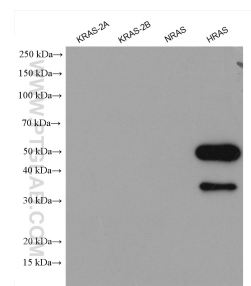
## Selected Validation Data



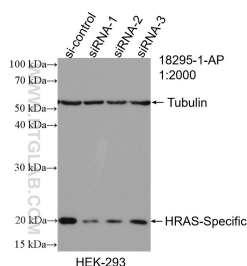
Various lysates were subjected to SDS PAGE followed by western blot with 18295-1-AP (HRAS-Specific antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



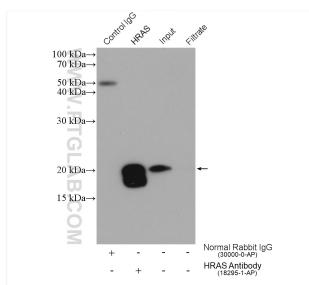
WB result of HRAS-Specific antibody (18295-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-HRAS-Specific transfected HEK-293 cells.



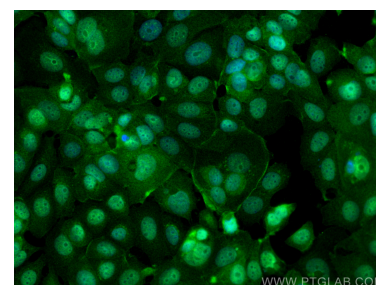
Recombinant proteins (ag27444 (6<sup>\*</sup>His tag-KRAS-2A), ag21645(6<sup>\*</sup>His tag-KRAS-2B), ag29746(6<sup>\*</sup>His tag-NRAS), ag23265(GST-HRAS)) were subjected to SDS PAGE followed by western blot with 16155-1-AP (KRAS-2B-specific antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



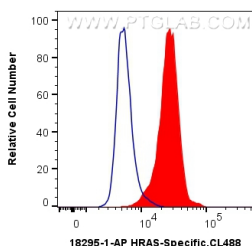
HEK-293 cells were subjected to SDS PAGE followed by western blot with 18295-1-AP (HRAS-Specific antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



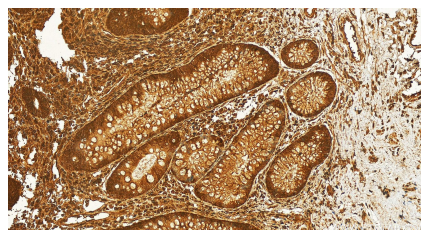
IP result of anti-HRAS-Specific (IP:18295-1-AP, 4ug; Detection:18295-1-AP 1:1000) with mouse brain tissue lysate 1840 ug.



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using HRAS-Specific antibody (18295-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1X10<sup>6</sup> HeLa cells were intracellularly stained with 0.4 ug Anti-Human HRAS-Specific (18295-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 18295-1-AP (HRAS-Specific antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Sodium Citrate buffer (pH 6.0).