

For Research Use Only

HRAS Polyclonal antibody

Catalog Number: 15531-1-AP

3 Publications



Basic Information

Catalog Number:

15531-1-AP

Size:

150ul, Concentration: 300 ug/ml by Nanodrop and 233 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG7704

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 1:500-1:1000

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

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IP, ELISA

Cited Applications:

WB

Species Specificity:

human, mouse, rat

Cited Species:

human

Positive Controls:

WB : HeLa cells, PC-12 cells, MCF-7 cells

IP : HeLa cells,

IHC : human stomach tissue, mouse intestine

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

HRAS belongs to the small GTPase superfamily and Ras family. RAS family proteins (KRAS4A, KRAS4B, NRAS and HRAS) function as GDP-GTP-regulated binary on-off switches, which regulate cytoplasmic signaling networks that control diverse normal cellular processes (PMID: 26985062). HRAS is involved in the activation of Ras protein signal transduction (PMID: 22821884). As HRAS mutations are associated to activation of RAF/MEK/ERK signaling in different cancers (PMID: 25435214). HRAS is mostly altered in head and neck squamous cell carcinoma (HNSCC) (5-9%), salivary glands (15%), and bladder cancer (5-30%) (PMID: 35621690).

Notable Publications

Author	Pubmed ID	Journal	Application
Tianling Ding	34476507	Mol Med Rep	WB
Li-Chao Zhang	36456746	Naunyn Schmiedeberg's Arch Pharmacol	WB
Michael Whaby	39379700	Oncogene	WB

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

*** 20ul sizes contain 0.1% BSA

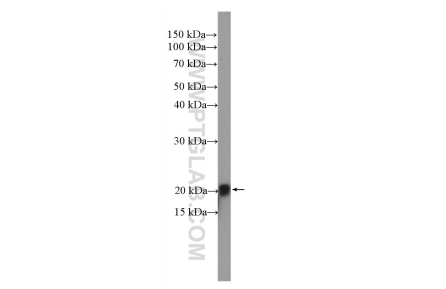
For technical support and original validation data for this product please contact:

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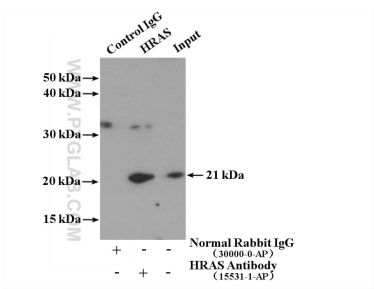
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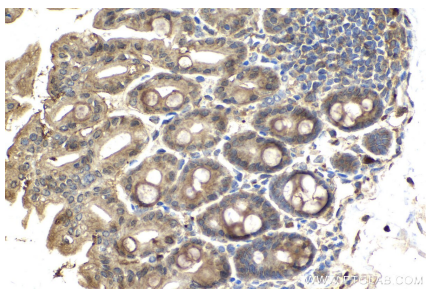
Selected Validation Data



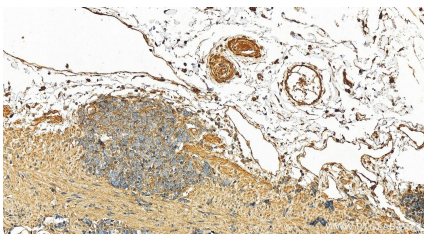
HeLa cells were subjected to SDS PAGE followed by western blot with 15531-1-AP (HRAS antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



IP result of anti-HRAS (IP:15531-1-AP, 4ug; Detection:15531-1-AP 1:300) with HeLa cells lysate 2600 ug.



Immunohistochemical analysis of paraffin-embedded mouse intestine tissue slide using 15531-1-AP (HRAS antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using 15531-1-AP (HRAS antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).