

For Research Use Only

KRAS Polyclonal antibody

Catalog Number: 12063-1-AP

Featured Product

118 Publications



Basic Information

Catalog Number:

12063-1-AP

Size:

150ul, Concentration: 650 µg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG2700

GenBank Accession Number:

BC013572

GeneID (NCBI):

3845

UNIPROT ID:

P01116

Full Name:

v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog

Calculated MW:

188 aa, 21 kDa

Observed MW:

21 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:5000-1:50000

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

IHC 1:400-1:1600

IF 1:200-1:800

Applications

Tested Applications:

WB, IP, IF, FC, IHC, ELISA

Cited Applications:

WB, IP, IF, IHC

Species Specificity:

human, mouse, rat

Cited Species:

human, chicken, rat, 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: HEK-293 cells, human brain tissue, human kidney tissue, mouse kidney tissue, rat kidney tissue, A549 cells, rat liver tissue, HeLa cells, mouse brain tissue, rat brain tissue

IP: HeLa cells,

IHC: human lung cancer tissue, human kidney tissue, human pancreas cancer tissue

IF: HeLa cells,

Background Information

KRAS, also called p21, is a member of the Ras superfamily of proteins. It is located on human chromosome 12, and contains four coding exons and a 5' non-coding exon (PMID: 12778136). KRAS is a membrane-anchored guanosine triphosphate/guanosine diphosphate (GTP/GDP)-binding protein and is widely expressed in most human cells. Like other members of the Ras family, the KRAS protein is a GTPase, and it is involved in intracellular signal transduction and mainly responsible for EGFR-signaling activation (PMID: 19117687). KRAS mutations have been found in various malignancies, including lung adenocarcinoma, mucinous adenoma, ductal carcinoma of the pancreas and colorectal carcinoma.

Notable Publications

Author	Pubmed ID	Journal	Application
Wang Jiang	33052229	Theranostics	WB,IHC
Linyu Sun	34555354	Mol Cell	WB
Makiko Tsuboi	28912272	J Biol Chem	WB

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

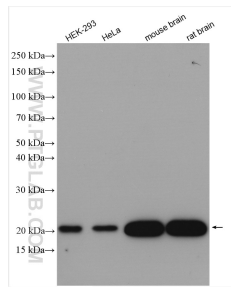
For technical support and original validation data for this product please contact:

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

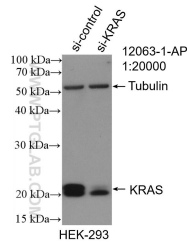
E: proteintech@ptglab.com
W: ptglab.com

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

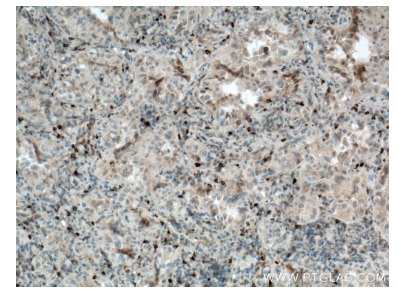
Selected Validation Data



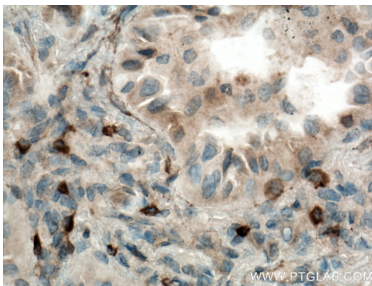
Various lysates were subjected to SDS PAGE followed by western blot with 12063-1-AP (KRAS antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



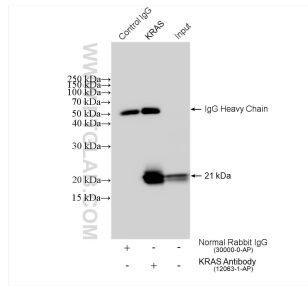
WB result of KRAS antibody (12063-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-KRAS transfected HEK-293 cells.



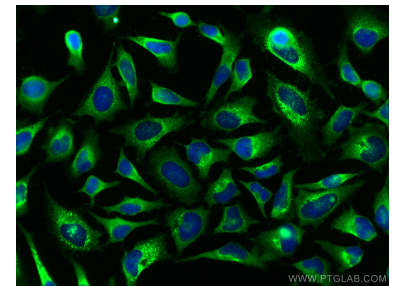
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 12063-1-AP (KRAS antibody) at dilution of 1:800 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



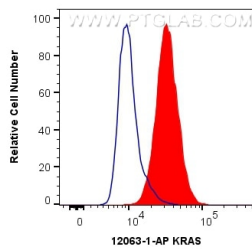
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 12063-1-AP (KRAS antibody) at dilution of 1:800 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-KRAS (IP:12063-1-AP, 4ug; Detection:12063-1-AP 1:10000) with HeLa cells lysate 1280 ug.



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using KRAS antibody (12063-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1X10⁶ HeLa cells were intracellularly stained with 0.4 ug Anti-Human KRAS (12063-1-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 (PF00011-C).