

For Research Use Only

KRAS Polyclonal antibody, PBS Only

Catalog Number: 12063-1-PBS

Featured Product



Basic Information

Catalog Number:

12063-1-PBS

Size:

100ug, Concentration: 1000 µg/ml by 3845

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

Applications

Tested Applications:

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

Species Specificity:

human, mouse, rat

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.

Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS Only

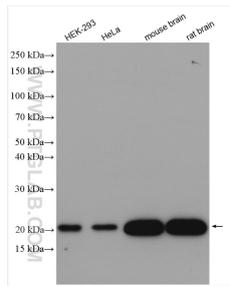
For technical support and original validation data for this product please contact:

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

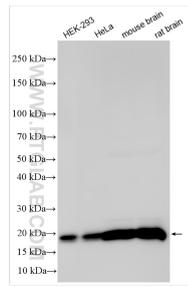
E: proteintech@ptglab.com
W: ptglab.com

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

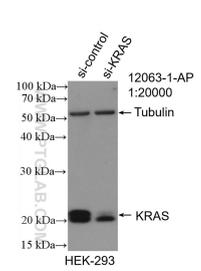
Selected Validation Data



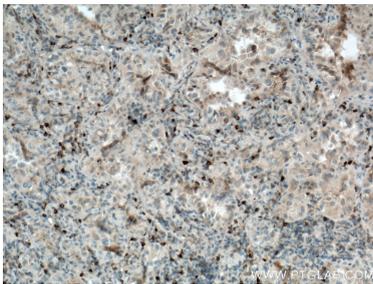
Various lysates were subjected to SDS PAGE followed by western blot with 12063-1-AP (KRAS antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 12063-1-PBS in a different storage buffer formulation.



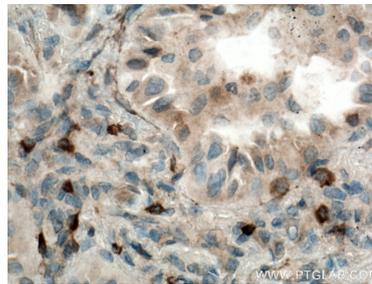
Various lysates were subjected to SDS PAGE followed by western blot with 12063-1-AP (KRAS antibody) at dilution of 1:40000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 12063-1-PBS in a different storage buffer formulation.



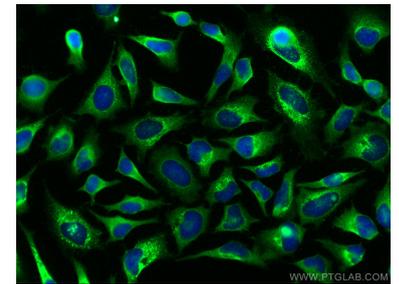
WB result of KRAS antibody (12063-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-KRAS transfected HEK-293 cells. This data was developed using the same antibody clone with 12063-1-PBS in a different storage buffer formulation.



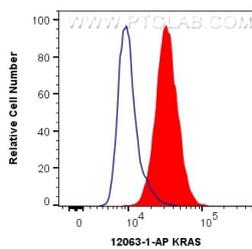
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 12063-1-AP (KRAS antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 12063-1-PBS in a different storage buffer formulation.



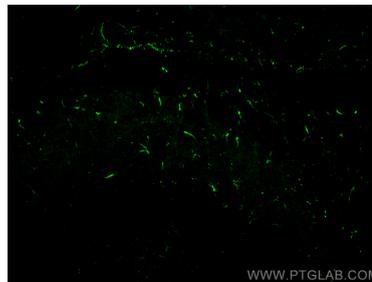
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 12063-1-AP (KRAS antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 12063-1-PBS in a different storage buffer formulation.



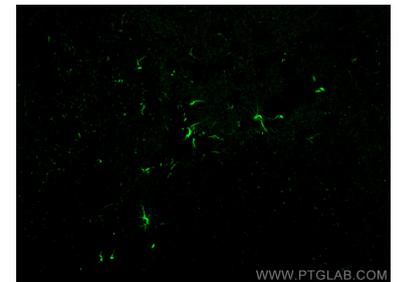
Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using KRAS antibody (12063-1-AP) at dilution of 1:400 and CoralLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). This data was developed using the same antibody clone with 12063-1-PBS in a different storage buffer formulation.



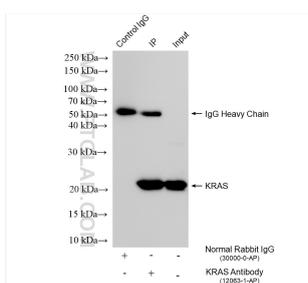
1X10⁶ HeLa cells were intracellularly stained with 0.4 ug Anti-Human KRAS (12063-1-AP) and CoralLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 12063-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using KRAS antibody (12063-1-AP) at dilution of 1:200 and CoralLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 12063-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using KRAS antibody (12063-1-AP) at dilution of 1:200 and CoralLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 12063-1-PBS in a different storage buffer formulation.



IP result of anti-KRAS (IP:12063-1-AP, 4ug;
Detection:12063-1-AP 1:10000) with HeLa cells
lysate 1280 ug. This data was developed using the
same antibody clone with 12063-1-PBS in a
different storage buffer formulation.