For Research Use Only

KRAS-4A Polyclonal antibody

Catalog Number:16156-1-AP 4 Publications

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Basic Information

Catalog Number:
16156-1-AP

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
NM_033360

GeneID (NCBI):
3845

UNIPROT ID:
P01116

Full Name:
v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog

Calculated MW:
21 kDa

Observed MW:
21-24 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:500-1:1000
IHC: 1:200-1:1000
IF/ICC: 1:200-1:800
FC (Intra): 0.40 ug per 10^6 cells in a 100 ul suspension

Applications

Tested Applications:
WB, IHC, IF/ICC, FC (Intra), ELISA

Cited Applications:
WB

Species Specificity:
human, mouse

Cited Species:
human

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 : NIH/3T3 cells,

IHC : human stomach tissue,

IF/ICC : HeLa cells,

FC (Intra) : HeLa cells,

Background Information

RAS (derived from 'RAt Sarcoma' virus) gene family includes KRAS, HRAS, and NRAS. These genes encode very similar 21 kDa proteins and are homologs of rodent sarcoma virus genes that have transforming abilities. KRAS has two isoforms, 4A and 4B. This antibody is specific for KRAS-4A, which is also named as KRAS-2A.

Notable Publications

Author	Pubmed ID	Journal	Application
Andrew M Waters	28951536	Sci Signal	WB
Sascha Röth	32668202	Cell Chem Biol	WB
Chun-Jui Chen	42189175	Brain	WB

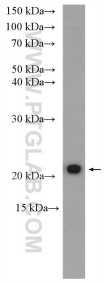
Storage

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

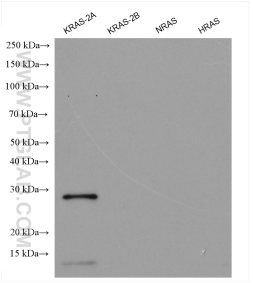
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

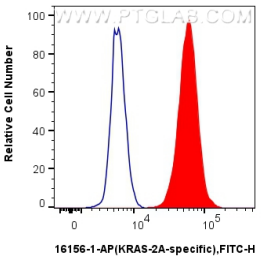
Selected Validation Data



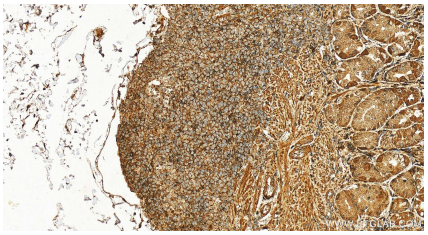
NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 16156-1-AP (KRAS-2A-specific antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



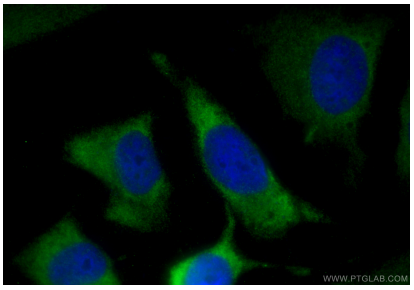
Recombinant proteins (ag27444 (6*His tag-KRAS-2A), ag21645(6*His tag-KRAS-2B), ag29746(6*His tag-NRAS), ag23265(GST-HRAS)) were subjected to SDS PAGE followed by western blot with 16155-1-AP (KRAS-2B-specific antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



1X10^6 HeLa cells were intracellularly stained with 0.4 ug Anti-Human KRAS-2A-specific (16156-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug rabbit IgG isotype control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.



Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using 16156-1-AP (KRAS-2A-specific antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using KRAS-2A-specific antibody (16156-1-AP) at dilution of 1:400 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).