

# NRAS Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP7745A

## Product Information

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<b>Application</b>	WB, FC, IF, E
<b>Primary Accession</b>	<a href="#">P01111</a>
<b>Other Accession</b>	<a href="#">Q04970</a> , <a href="#">Q2MIK3</a> , <a href="#">P08556</a> , <a href="#">Q5F352</a>
<b>Reactivity</b>	Human, Rat, Mouse
<b>Predicted</b>	Chicken, Mouse, Pig, Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB14459
<b>Calculated MW</b>	21229
<b>Antigen Region</b>	72-101

## Additional Information

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<b>Gene ID</b>	4893
<b>Other Names</b>	GTPase NRas, Transforming protein N-Ras, NRAS, HRAS1
<b>Target/Specificity</b>	This NRAS antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 72-101 amino acids from the N-terminal region of human NRAS.
<b>Dilution</b>	WB~~1:1000 FC~~1:10~50 IF~~1:10~50 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is purified through a protein A column, followed by peptide affinity purification.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	NRAS Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	NRAS
<b>Synonyms</b>	HRAS1

<b>Function</b>	Ras proteins bind GDP/GTP and possess intrinsic GTPase activity.
<b>Cellular Location</b>	Cell membrane; Lipid-anchor; Cytoplasmic side. Golgi apparatus membrane; Lipid-anchor Note=Shuttles between the plasma membrane and the Golgi apparatus

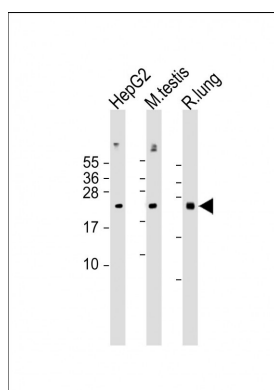
## Background

NRAS is a membrane protein that shuttles between the Golgi apparatus and the plasma membrane. This shuttling is regulated through palmitoylation and depalmitoylation by the ZDHHC9-GOLGA7 complex. This protein, which has intrinsic GTPase activity, is activated to a GTP-bound form by a GTPase activating protein and inactivated to a GDP-bound form by a guanine nucleotide-exchange factor. Defects in the gene encoding this protein are a cause of juvenile myelomonocytic leukemia (JMML).

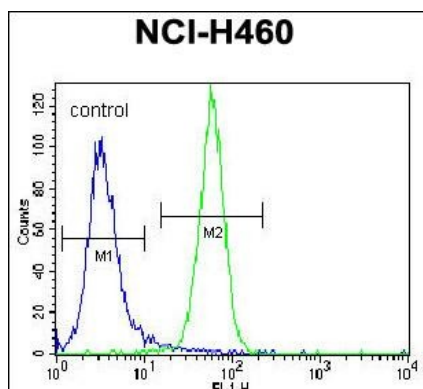
## References

Smalley,K.S., Cancer Res. 68 (14), 5743-5752 (2008)  
Banerji,U., Mol. Cancer Ther. 7 (4), 737-739 (2008)

## Images

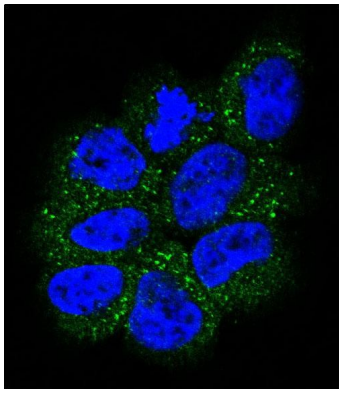


All lanes : Anti-NRAS Antibody (N-term) at 1:1000 dilution  
Lane 1: HepG2 whole cell lysate Lane 2: Mouse testis whole tissue lysate Lane 3: Rat lung whole tissue lysate  
Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 21 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



NRAS Antibody (N-term) (Cat. #AP7745a) flow cytometric analysis of NCI-H460 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Confocal immunofluorescent analysis of NRAS Antibody (N-term)(Cat#AP7745a) with NCI-H460 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.