10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# NRAS Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5296

## Product Information

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| **Application** | FC, IHC-P, WB |
| **Primary Accession** | P01111 |
| **Other Accession** | Q2MJK3 |
| **Reactivity** | Mouse, Rat, Human |
| **Predicted** | Mouse, Rat |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 21229 |
| **Isotype** | Rabbit IgG |
| **Antigen Source** | HUMAN |

## Additional Information

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| **Gene ID** | 4893 |
| **Antigen Region** | 147-179 |
| **Other Names** | NRAS; HRAS1; GTPase NRas; Transforming protein N-Ras |
| **Dilution** | FC~~1:10~50 IHC-P~~1:100~500 WB~~1:1000 |
| **Target/Specificity** | This NRAS antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 147-179 amino acids from the C-terminal region of human NRAS. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS. |
| **Storage** | 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. |
| **Precautions** | NRAS Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | NRAS |
| **Synonyms** | HRAS1 |

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

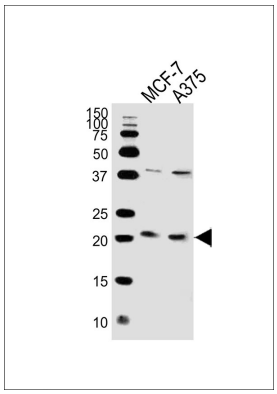
## Background

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).

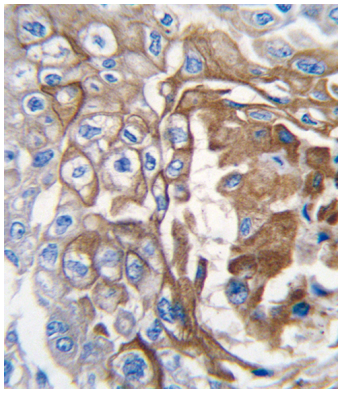
## References

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

## Images

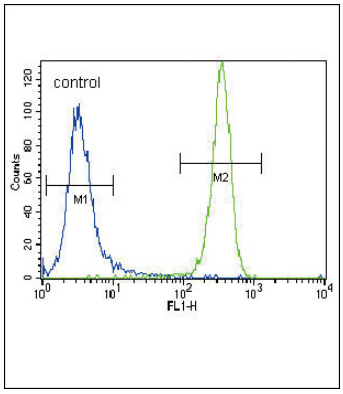



Western blot analysis of lysates from MCF-7,A375 cell line (from left to right), using NRAS Antibody (C-term)(Cat. #AW5296). AW5296 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.



Formalin-fixed and paraffin-embedded human lung carcinoma tissue reacted with NRAS antibody (C-term) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

NRAS Antibody (C-term) (Cat. #AW5296) 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.




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