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

N-RAS Antibody
Catalog # ASC11665

Specification

N-RAS Antibody - Product Information

Application	**WB**
Primary Accession	P01111
Other Accession	NP_002515, 4505451
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Calculated MW	**Predicted: 21** **Observed: 20 KDa**
Application Notes	**N-RAS antibody can be used for detection of N-RAS by Western blot at 0.5 – 1 µg/mL.**

N-RAS Antibody - Additional Information

Gene ID **4893**

Target/Specificity
NRAS; N-RAS antibody is predicted to not cross-react with H-RAS

Reconstitution & Storage
N-RAS antibody can be stored at 4℃ for three months and -20℃, stable for up to one year.

Precautions
N-RAS Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

N-RAS Antibody - Protein Information

Name NRAS

Synonyms HRAS1

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

N-RAS Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

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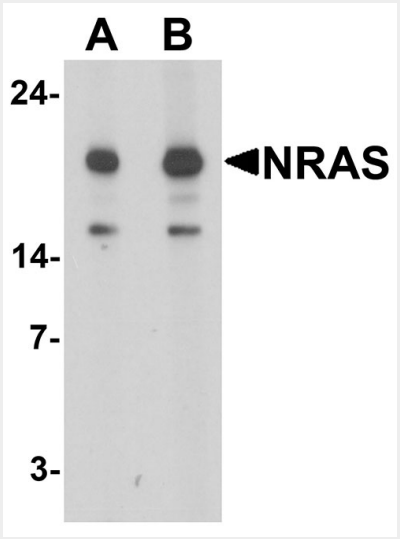
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

N-RAS Antibody - Images



Western blot analysis of N-RAS in 293 cell lysate with N-RAS antibody at (A) 1 and (B) 2 µg/mL.

N-RAS Antibody - Background

N-RAS Antibody: Activating mutations and overexpression of classical Ras subfamily members (N-RAS, H-RAS, and K-RAS) have been widely investigated as key events in the development of human cancers. The N-RAS protein shuttles between the Golgi apparatus and the plasma membrane. This shuttling is regulated through palmitoylation and depalmitoylation by the ZDHHC9-GOLGA7 complex. N-RAS, which has intrinsic GTPase activity, is activated by a guanine nucleotide-exchange factor and inactivated by a GTPase activating protein. Mutations in this gene have been associated with somatic rectal cancer, follicular thyroid cancer, autoimmune lymphoproliferative syndrome, Noonan syndrome, and juvenile myelomonocytic leukemia.

N-RAS Antibody - References

Ehrhardt A, Ehrhardt GR, Guo X, et al. Ras and relatives--job sharing and networking keep an old family together. Exp. Hematol. 2002; 30:1089-106.
Swarthout JT, Lobo S, Farh L, et al. DHHC9 and GCP9 constitute a human protein fatty acyltransferase with specificity for H- and N-Ras. J. Biol. Chem. 2005; 280:31141-8.
Malaney S and Daly RJ. The ras signaling pathway in mammary tumorigenesis and metastasis. J. Mammary Gland Biol. Neoplasia 2001; 6:101-13.
Rodenhuis S. ras and human tumors. Semin Cancer Biol. 1992; 3:241-7