

**Goat Anti-NRAS Antibody**  
Peptide-affinity purified goat antibody  
Catalog # AF1746a

## Specification

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### Goat Anti-NRAS Antibody - Product Information

Application	WB, IHC
Primary Accession	<a href="#">P01111</a>
Other Accession	<a href="#">NP_002515</a> , <a href="#">4893</a> , <a href="#">18176 (mouse)</a> , <a href="#">24605 (rat)</a>
Reactivity	Human, Rat
Predicted	Mouse, Dog
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	21229

### Goat Anti-NRAS Antibody - Additional Information

**Gene ID** 4893

#### Other Names

GTPase NRas, Transforming protein N-Ras, NRAS, HRAS1

#### Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

#### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### Precautions

Goat Anti-NRAS Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

### Goat Anti-NRAS 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

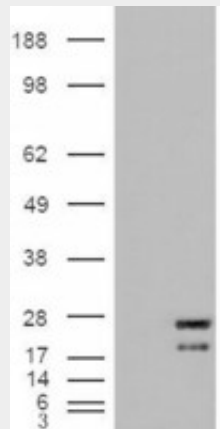
Note=Shuttles between the plasma membrane and the Golgi apparatus

### Goat Anti-NRAS Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

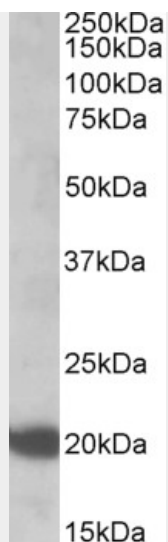
### Goat Anti-NRAS Antibody - Images



HEK293 overexpressing NRAS (RC202681) and probed with AF1746a (mock transfection in first lane), tested by Origene.



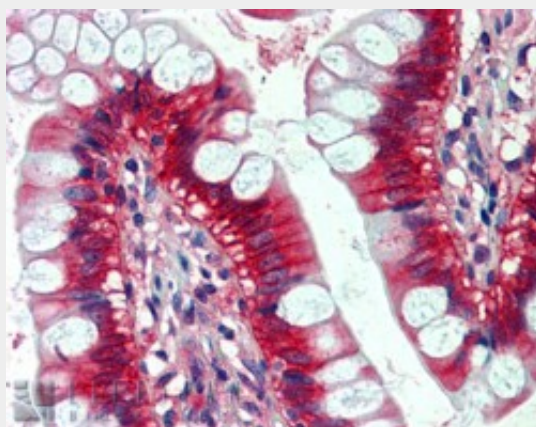
AF1746a (0.01 µg/ml) staining of A431 lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



AF1746a(0.1 µg/ml) staining of Rat Intestines lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



EB08365 (0.5µg/ml) staining of MCF7 cell lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



EB08365 (2.5µg/ml) staining of paraffin embedded Human Small Intestine. Steamed antigen retrieval with citrate buffer pH 6, AP-staining. **This data is from a previous batch, not on sale.**

## Goat Anti-NRAS Antibody - Background

This is an N-ras oncogene encoding 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. The encoded 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 this gene are a cause of juvenile myelomonocytic leukemia (JMML).

## Goat Anti-NRAS Antibody - References

NRAS mutations are rare in colorectal cancer. Irahara N, et al. *Diagn Mol Pathol*, 2010 Sep. PMID 20736745.

Prognostic implication of N-RAS gene mutations in Egyptian adult acute myeloid leukemia. Elghannam DM, et al. *Egypt J Immunol*, 2009. PMID 20726318.

Combined mutations of ASXL1, CBL, FLT3, IDH1, IDH2, JAK2, KRAS, NPM1, NRAS, RUNX1, TET2 and WT1 genes in myelodysplastic syndromes and acute myeloid leukemias. Rocquain J, et al. *BMC Cancer*, 2010 Aug 2. PMID 20678218.

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. *Diabetes Care*, 2010 Jul 13. PMID 20628086.

Effects of KRAS, BRAF, NRAS, and PIK3CA mutations on the efficacy of cetuximab plus chemotherapy in chemotherapy-refractory metastatic colorectal cancer: a retrospective consortium analysis. De Roock W, et al. *Lancet Oncol*, 2010 Aug. PMID 20619739.