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Goat Anti-NRAS Antibody

Peptide-affinity purified goat antibody
Catalog # AF1746a

Specification

Goat Anti-NRAS Antibody - Product Information

Application	**WB, Pep-ELISA**
Primary Accession	P01111
Other Accession	NP_002515, 4893, 18176 (mouse), 24605 (rat)
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

Dilution
WB~~1:1000
Pep-ELISA~~N/A

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.

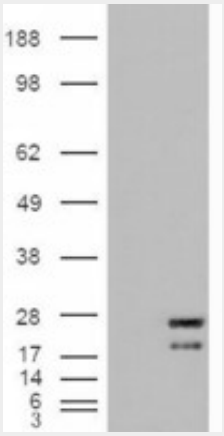
Cellular Location
Cell membrane; Lipid-anchor; Cytoplasmic side. Golgi apparatus membrane; Lipid-anchor
Note=Shuttles between the plasma membrane and the Golgi apparatus

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 Cytomety
- 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.

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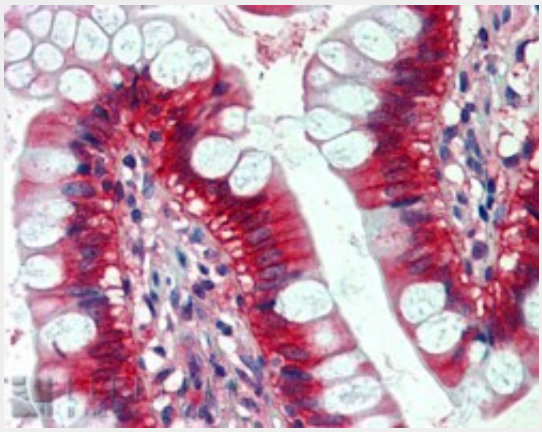
AF1746a(0.1 µg/ml) staining of Rat Intestines lysate (35 µg protein in RIPA buffer).Primary incubation was 1 hour.Detected by chemiluminescence.

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 Thiazolinedinedione-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.