

Rabbit NRAS Antibody | anti-NRAS antibody

AbFlex NRAS antibody (rAb)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA60422	Rabbit	Human, Mouse, Rat	Western Blot, Dot Blot

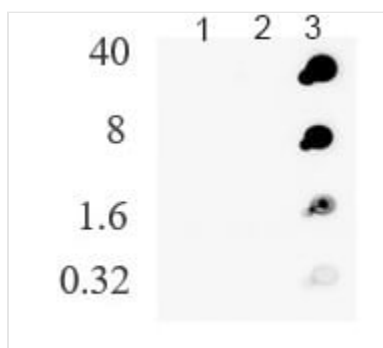
PRODUCT SYNONYMS

NRAS; AbFlex NRAS antibody (rAb); Neuroblastoma RAS Viral Oncogene Homolog; nras; Nras; anti-NRAS antibody

PRODUCT SPECIFICATIONS

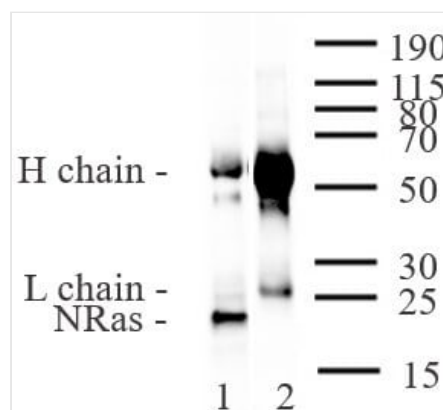
Host	Rabbit
Reactivity	Human, Mouse, Rat
Isotype	IgG2a
Purity/Purification	Protein A Chromatography
Form/Format	Purified IgG in 140 mM Hepes, pH 7.5, 70 mM NaCl, 32 mM NaOAc, 30% glycerol and 0.035% sodium azide. Sodium azide is highly toxic.
Concentration	1 (varies by lot)
Applicable Applications for anti-NRAS antibody	WB (Western Blot), DB (Dot Blot)
Preparation and Storage	Some products may be shipped at room temperature. This will not affect their stability or performance. Avoid repeated freeze/thaw cycles by aliquoting items into single-use fractions for storage at -20 degree C for up to 2 years. Keep all reagents on ice when not in storage.

IMAGES



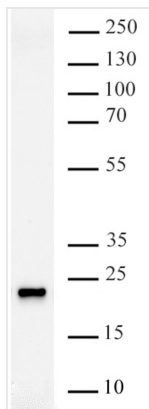
DB (Dot Blot)

AbFlex NRAS antibody (rAb) tested by dot blot analysis. Dot blot analysis was used to confirm the specificity of NRAS antibody (rAb). Recombinant proteins were spotted onto nitrocellulose and probed with NRAS antibody (rAb) at 1 ug/ul. The amount of protein (nanograms) spotted is indicated next to each row. Lane 1: HRAS. Lane 2: KRAS. Lane 3: NRAS.



IP (Immunoprecipitation)

AbFlex NRAS antibody (rAb) tested by Immunoprecipitation 500 ug of MCF7 whole cell extract was immunoprecipitated with 4 ug of either AbFlex NRAS antibody (Lane 1) or Rabbit IgG (Lane 2). Immunoprecipitated proteins were run on SDS-PAGE and probed using a recombinant antibody specific for NRAS at 1 ug/ml. On the gel, antibody heavy chains (50kDa) and light chains (25kDa) are visible.



WB (Western Blot)

AbFlex NRAS antibody (rAb) tested by Western blot. Whole cell extract of MCF7 (20 ug/lane) was probed with NRAS antibody (rAb) at 0.5 ug/mL.

ADDITIONAL INFORMATION

Related Product Information for anti-NRAS antibody	AbFlex NRAS antibody (rAb) was raised in a Rabbit host. It has been validated for use in Dot blot and Western blot; it has been shown to react with Human, Mouse and Rat samples. AbFlex antibodies are recombinant antibodies (rAbs) that have been generated using defined DNA sequences to produce highly specific, reproducible antibodies. Each AbFlex antibody contains a 6xHis Tag, a Biotinylation Tag for enzymatic biotin conjugation using the biotin ligase, BirA, and a sortase recognition motif (LPXTG) to attach a variety of labels directly to the antibody including fluorophores, enzymatic substrates (HRP, AP), peptides, drugs as well as solid supports. AbFlex NRAS antibody was expressed as full-length IgG with mouse immunoglobulin heavy and light chains (IgG2a isotype) in mammalian 293 cells. The antibody was directly labeled with biotin using the biotin ligase, BirA. Oncogenic mutations in Ras genes have been found in about 30% of human cancers. This family of genes is involved in cell signaling pathways that control cell growth and death. The human Ras gene family consists of three identified members H-, K- and NRAS encoding proteins of 188-189 amino acids and 21,000 (p21) daltons. The NRAS oncogene encodes a membrane protein that shuttles between the Golgi apparatus and the plasma membrane. This protein is activated by a guanine nucleotide-exchange factor and inactivated by a GTPase activating protein. Human H- and K-Ras are the homologues of v-H- and v-K-ras, sequences. Under normal circumstances the Ras-GTPase activity gradually converts GTP to GDP, but in oncogenic mutations Ras locks the protein into the active GTP conformation. This leads to a constant Ras gene and uncontrollable cell growth. Due to these intracellular relationship Ras antibodies have emerged as a valuable tool for target validation studies for cancer.
Product Categories/Family for anti-NRAS antibody	Primary Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505451
NCBI GeneID	4893
NCBI Accession #	NP_002515.1
NCBI GenBank Nucleotide #	NM_002524.4
UniProt Accession #	P01111 ; Q14971 ; Q15104 ; Q15282
Molecular Weight	21kDa
NCBI Official Full Name	GTPase NRas
NCBI Official Synonym Full Names	neuroblastoma RAS viral (v-ras) oncogene homolog
NCBI Official Symbol	NRAS
NCBI Official Synonym Symbols	NS6; ALPS4; N-ras; NRAS1
NCBI Protein Information	GTPase NRas; N-ras protein part 4; transforming protein N-Ras; v-ras neuroblastoma RAS viral oncogene homolog

UniProt Protein Name	GTPase NRas
UniProt Gene Name	NRAS
UniProt Synonym Gene Names	HRAS1
UniProt Entry Name	RASN_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/rabbit-human-mouse-rat-antibody/nras/60422>