OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for TA326495

NRAS Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Recommended Dilution:	WB: 1:1000
Reactivity:	Human, Mouse, Rat, Bovine
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to amino acids 31-43 of human RAS. (The immunogen peptide is from the effector binding loop (l2) of the H, K and N-Ras (AA31-43). This sequence is identical yeast, slime mould, fingi, Xenopus, rat, mouse and chicken over these residues.)
Formulation:	PBS pH7.4, 50% glycerol, 0.09% sodium azide
Concentration:	lot specific
Purification:	Protein G Purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	neuroblastoma RAS viral oncogene homolog
Database Link:	NP_002515 Entrez Gene 18176 MouseEntrez Gene 24605 RatEntrez Gene 4893 Human P01111
Background:	The 21 kDa guanine-nucleotide binding proteins (K-Ras, H-Ras and N-Ras) cycle between active (GTP-bound) and inactive (GDP-bound) forms . Receptor tyrosine kinases and G-protein-coupled receptors activate Ras, which then stimulates the Raf-MEK-MAPK pathway . GTPase-activating proteins (GAP) normally facilitate the inactivation of Ras. However, in 30% of human tumors, point mutations in Ras prevent the GAP-mediated inhibition of this pathway . The most common oncogenic Ras mutation found in tumors is Gly12 to Asp (G12D), which prevents Ras inactivation, possibly by increasing the overall rigidity of the protein .
Synonyms:	ALPS4; CMNS; N-ras; NCMS; NRAS1; NS6
Note:	Detects ~21kDa.

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Protein Families: Druggable Genome

Protein Pathways: Acute myeloid leukemia, Axon guidance, B cell receptor signaling pathway, Bladder cancer, Chemokine signaling pathway, Chronic myeloid leukemia, Endometrial cancer, ErbB signaling pathway, Fc epsilon RI signaling pathway, Gap junction, Glioma, GnRH signaling pathway, Insulin signaling pathway, Long-term depression, Long-term potentiation, MAPK signaling pathway, Melanogenesis, Melanoma, Natural killer cell mediated cytotoxicity, Neurotrophin signaling pathway, Non-small cell lung cancer, Pathways in cancer, Prostate cancer, Regulation of actin cytoskeleton, Renal cell carcinoma, T cell receptor signaling pathway, Thyroid cancer, Tight junction, VEGF signaling pathway