



N/H/K-Ras Polyclonal Antibody

Catalog No	BYab-16183
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	NRAS/HRAS/KRAS
Protein Name	GTPase Nras/GTPase Hras/GTPase Kras
Immunogen	The antiserum was produced against synthesized peptide derived from human RASH/RASK. AA range:1-50
Specificity	N/H/K-Ras Polyclonal Antibody detects endogenous levels of N/H/K-Ras protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. IHC-p: 1:100-300 ELISA: 1/20000. IF 1:100-300 Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	NRAS; HRAS1; GTPase NRas; Transforming protein N-Ras; HRAS; HRAS1; GTPase HRas; H-Ras-1; Ha-Ras; Transforming protein p21; c-H-ras; p21ras; KRAS; KRAS2; RASK2; GTPase KRas; K-Ras 2; Ki-Ras; c-K-ras; c-Ki-ras
Observed Band	21kD
Cell Pathway	Cell membrane ; Lipid-anchor ; Cytoplasmic side . Golgi apparatus membrane ; Lipid-anchor . Shuttles between the plasma membrane and the Golgi apparatus. .
Tissue Specificity	Bone marrow,Bone-marrow,Brain,Fibrosarcoma,Kidney,Leukemia,Lung car
Function	disease:Defects in NRAS are a cause of juvenile myelomonocytic leukemia (JMML) [MIM:607785]. JMML is a pediatric myelodysplastic syndrome that constitutes approximately 30% of childhood cases of myelodysplastic syndrome (MDS) and 2% of leukemia.,disease:Mutations which change AA 12, 13 or 61 activate the potential of Ras to transform cultured cells and are implicated in a variety of human tumors.,enzyme regulation:Alternate between an inactive form bound to GDP and an active form bound to GTP. Activated by a guanine nucleotide-exchange factor (GEF) and inactivated by a GTPase-activating protein

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(GAP).,function:Ras proteins bind GDP/GTP and possess intrinsic GTPase activity.,online information:NRAS mutation db,online information:RAS proteins entry,PTM:Palmitoylated by the ZDHHC9-GOLGA7 complex. A continuous cycle of de- and re-palmitoylation regulates rapid exchange between plasma membran

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 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. [provided by RefSeq, Jun 2011],

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

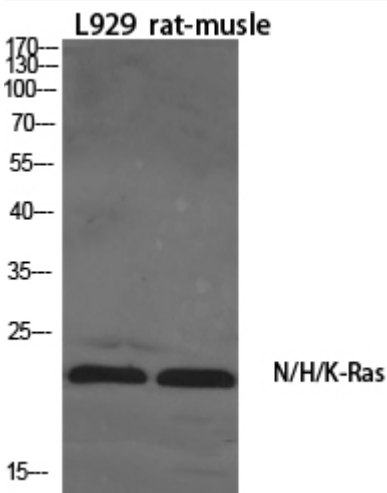
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Products Images

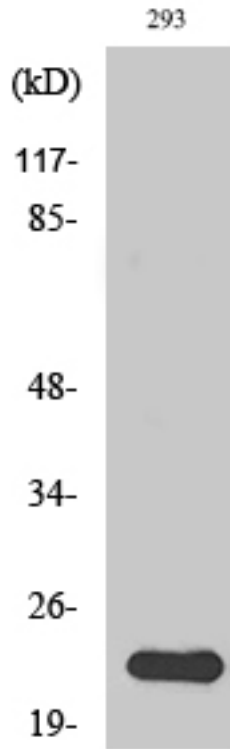


Immunofluorescence analysis of A549. 1,primary Antibody(red) was diluted at 1:200(4°C overnight). 2, Goat Anti Rabbit IgG (H&L) - Alexa Fluor 594 Secondary antibody was diluted at 1:1000(room temperature, 50min).3, Picture B: DAPI(blue) 10min.

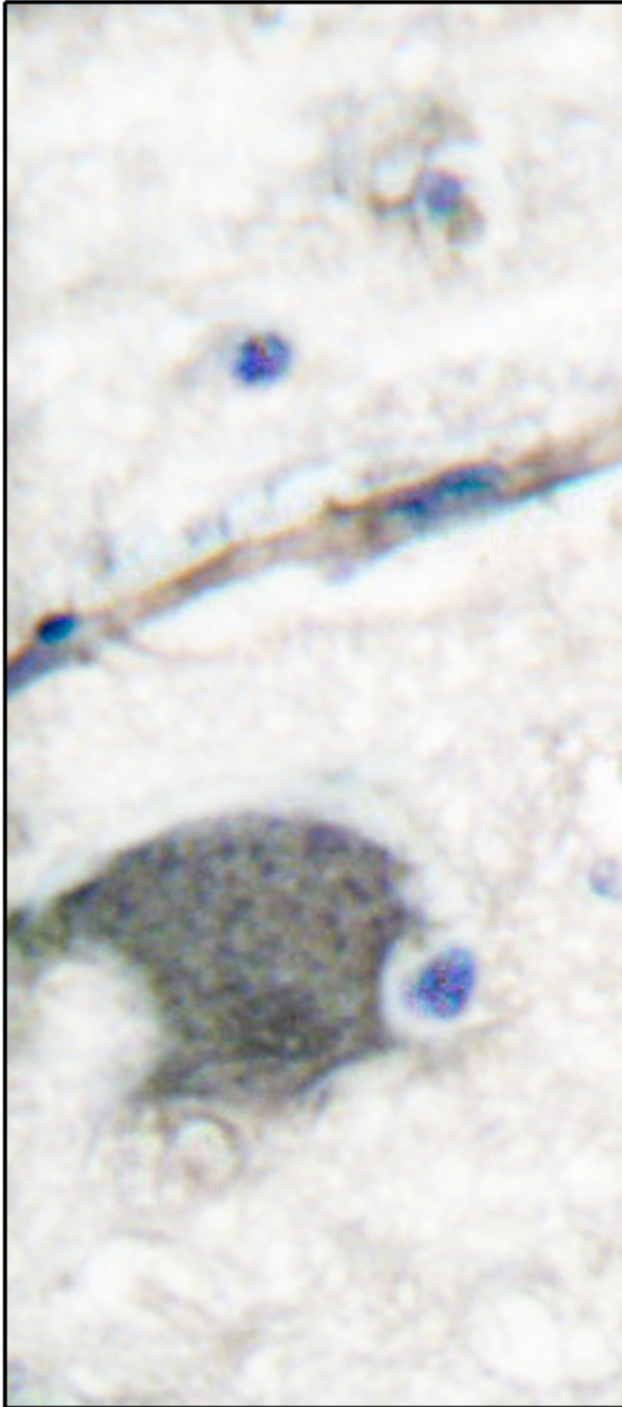


Western Blot analysis of various cells using N/H/K-Ras Polyclonal Antibody diluted at 1:1000

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Western Blot analysis of 293 cells using N/H/K-Ras
Polyclonal Antibody diluted at 1:1000



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using RASH/RASK Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HeLa cells, using RASH/RASK Antibody. The lane on the right is blocked with the synthesized peptide.

RAS(p21

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