

## N/H/K-Ras Polyclonal Antibody

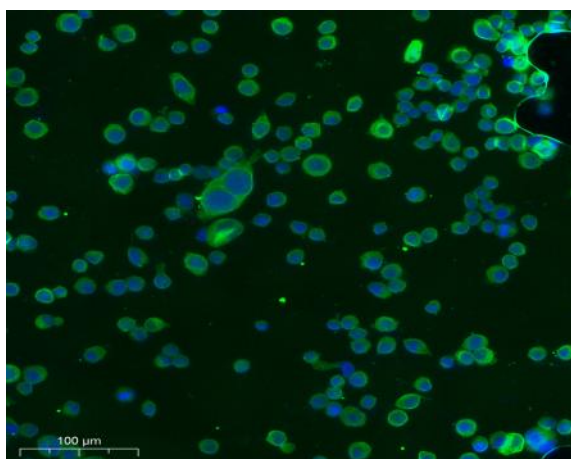
<b>Catalog No :</b>	YT2960
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	N/H/K-Ras
<b>Fields :</b>	>>EGFR tyrosine kinase inhibitor resistance;>>Endocrine resistance;>>MAPK signaling pathway;>>ErbB signaling pathway;>>Ras signaling pathway;>>Rap1 signaling pathway;>>Chemokine signaling pathway;>>FoxO signaling pathway;>>Sphingolipid signaling pathway;>>Phospholipase D signaling pathway;>>Mitophagy - animal;>>Autophagy - animal;>>mTOR signaling pathway;>>PI3K-Akt signaling pathway;>>Apoptosis;>>Longevity regulating pathway;>>Longevity regulating pathway - multiple species;>>Cellular senescence;>>Axon guidance;>>VEGF signaling pathway;>>Apelin signaling pathway;>>Gap junction;>>Signaling pathways regulating pluripotency of stem cells;>>C-type lectin receptor signaling pathway;>>Natural killer cell mediated cytotoxicity;>>T cell receptor signaling pathway;>>B cell receptor signaling pathway;>>Fc epsilon RI signaling pathway;>>Thermogenesis;>>Long-term potentiation;>>Neurotrophin signaling pathway;>>Cholinergic synapse;>>Serotonergic synapse;>>Long-term depression;>>Regulation of actin
<b>Gene Name :</b>	NRAS/HRAS/KRAS
<b>Protein Name :</b>	GTPase Nras/GTPase Hras/GTPase Kras
<b>Human Gene Id :</b>	3265/3845/4893
<b>Human Swiss Prot No :</b>	P01111/P01112/P01116
<b>Mouse Gene Id :</b>	15461/16653
<b>Rat Gene Id :</b>	24605/293621/24525
<b>Rat Swiss Prot No :</b>	Q04970/P20171/P08644
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human RASH/RASK. AA range:1-50

<b>Specificity :</b>	N/H/K-Ras Polyclonal Antibody detects endogenous levels of N/H/K-Ras protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. IHC: 1:100-300 ELISA: 1:20000. IF 1:100-300 Not yet tested in other applications.
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Observed Band :</b>	21kD
<b>Cell Pathway :</b>	MAPK_ERK_Growth;MAPK_G_Protein;ErbB_HER;Chemokine;Axon guidance;VEGF;Tight junction;Gap junction;Natural killer cell mediated cytotoxicity;T_Cell_Receptor;B_Cell_Antigen;Fc epsilon RI;Long-term potent
<b>Background :</b>	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],
<b>Function :</b>	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 (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

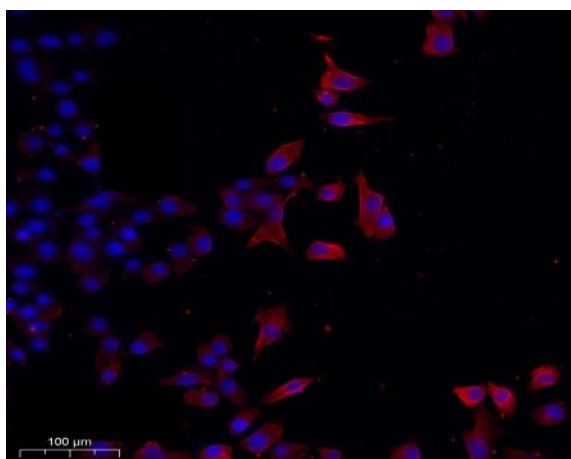
**Subcellular Location :** Cell membrane ; Lipid-anchor ; Cytoplasmic side . Golgi apparatus membrane ; Lipid-anchor . Shuttles between the plasma membrane and the Golgi apparatus. .

**Expression :** Bone marrow,Bone-marrow,Brain,Fibrosarcoma,Kidney,Leukemia,Lung car

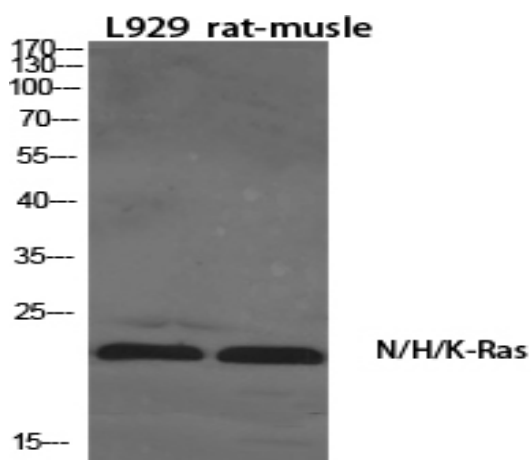
## Products Images



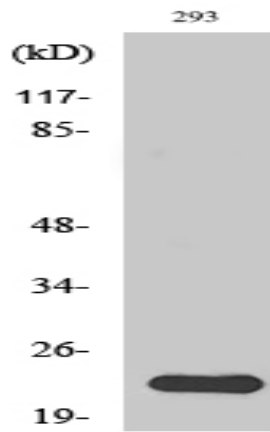
Immunofluorescence analysis of Siha cell. 1,primary Antibody was diluted at 1:100(4°C overnight). 2, Goat Anti Rabbit IgG (H&L) - AFluor 488 Secondary antibody (catalog No:RS3211) was diluted at 1:500(room temperature, 50min).



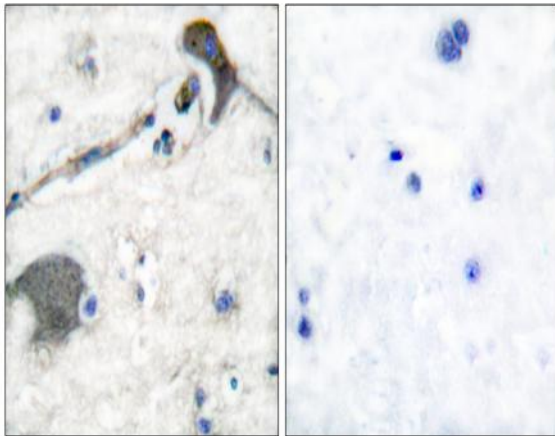
Immunofluorescence analysis of Siha cell. 1,primary Antibody was diluted at 1:100(4°C overnight). 2, Goat Anti Rabbit IgG (H&L) - AFluor 594 Secondary antibody(catalog No: RS3611) was diluted at 1:500(room temperature, 50min).



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



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.