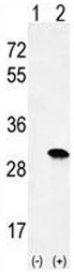
H-RAS Antibody (F41616)

Catalog No.	Formulation	Size
F41616-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F41616-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

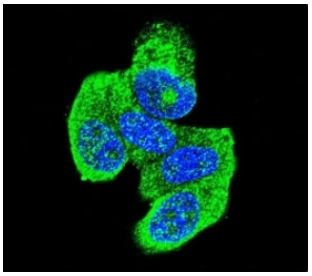
Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse
Predicted Reactivity	Rat, Chicken
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Purified
UniProt	P01112
Applications	Western Blot : 1:1000 Immunofluorescence : 1:10-1:50
Limitations	This H-RAS antibody is available for research use only.

H-RAS antibody western blot analysis in mouse cerebellum tissue lysate. Predicted molecular weight ~ 21 kDa.



Western blot analysis of H-RAS antibody and 293 cell lysate either nontransfected (Lane 1) or transiently transfected (2) with the HRAS gene.



Confocal immunofluorescent analysis of H-RAS antibody with MCF-7 cells followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). DAPI was used as a nuclear counterstain (blue).

Description

This gene belongs to the Ras oncogene family, whose members are related to the transforming genes of mammalian sarcoma retroviruses. The products encoded by these genes function in signal transduction pathways. These proteins can bind GTP and GDP, and they have intrinsic GTPase activity. This protein undergoes a continuous cycle of de- and re-palmitoylation, which regulates its rapid exchange between the plasma membrane and the Golgi apparatus. Mutations in this gene cause Costello syndrome, a disease characterized by increased growth at the prenatal stage, growth deficiency at the postnatal stage, predisposition to tumor formation, mental retardation, skin and musculoskeletal abnormalities, distinctive facial appearance and cardiovascular abnormalities. Defects in this gene are implicated in a variety of cancers, including bladder cancer, follicular thyroid cancer, and oral squamous cell carcinoma. Multiple transcript variants, which encode different isoforms, have been identified for this gene.

Application Notes

Titration of the H-RAS antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 146-176 from the human protein was used as the immunogen for this H-RAS antibody.

Storage

Aliquot the H-RAS antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.