HRAS Antibody (F50750)

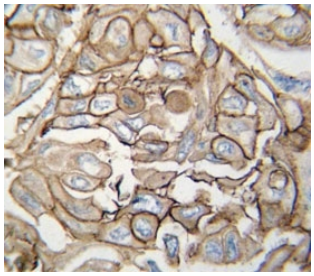
Catalog No.	Formulation	Size
F50750-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F50750-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

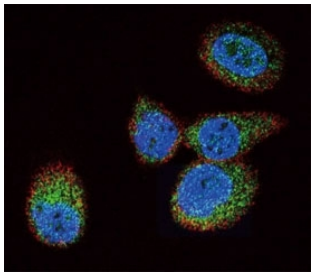
Availability	1-3 business days
Species Reactivity	Human
Predicted Reactivity	Mouse, Rat
Format	Purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Purified
UniProt	P01112
Applications	Western Blot : 1:500-1000 IHC (Paraffin) : 1:10-1:50 Immunofluorescence : 1:10-1:50
Limitations	This HRAS antibody is available for research use only.

Western blot analysis of lysate from 293T cell line using HRAS antibody diluted at 1:1000. Predicted molecular weight ~21 kDa.

Western blot analysis of HRAS antibody in Jurkat lysate. Predicted molecular weight ~21 kDa.



IHC analysis of FFPE human lung carcinoma tissue stained with HRAS antibody



Confocal immunofluorescent analysis of HRAS antibody with MCF-7 cells followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). Actin filaments have been labeled with Alexa Fluor 555 Phalloidin (red). DAPI was used as a nuclear counterstain (blue).

Description

HRAS belongs to the Ras oncogene family, whose members are related to the transforming genes of mammalian sarcoma retroviruses. These proteins function in signal transduction pathways. They can bind GTP and GDP, and they have intrinsic GTPase activity. HRAS 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 the HRAS gene are implicated in a variety of cancers, including bladder cancer, follicular thyroid cancer, and oral squamous cell carcinoma.

Application Notes

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

Immunogen

A portion of amino acids 104-128 from the human protein was used as the immunogen for this HRAS antibody.

Storage

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