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Datasheet for ABIN392183

anti-HRAS antibody (AA 104-128)

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Overview

Quantity:	400 µL
Target:	HRAS
Binding Specificity:	AA 104-128
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HRAS antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This HRAS antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 104-128 amino acids from the Central region of human HRAS.
Clone:	RB15622
Isotype:	Ig Fraction
Predicted Reactivity:	M, Rat
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	HRAS
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Target Details

Alternative Name: [HRAS \(HRAS Products\)](#)

Background: 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.

Molecular Weight: 21298

Gene ID: 3265

NCBI Accession: [NP_001123914](#), [NP_005334](#), [NP_789765](#)

UniProt: [P01112](#)

Pathways: [p53 Signaling](#), [MAPK Signaling](#), [RTK Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Hepatitis C](#), [Autophagy](#), [Signaling Events mediated by VEGFR1 and VEGFR2](#), [Signaling of Hepatocyte Growth Factor Receptor](#), [Regulation of long-term Neuronal Synaptic Plasticity](#), [VEGF Signaling](#), [BCR Signaling](#)

Application Details

Application Notes: IF: 1:10~50. WB: 1:1000. WB: 1:500. IHC-P: 1:10~50

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -20 °C

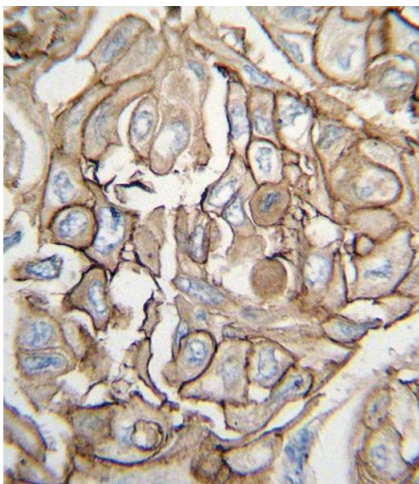
Handling

Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months

Publications

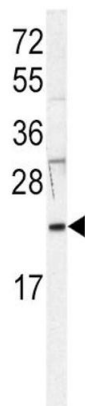
Product cited in:	Maemoto, Yumoto, Iбата, Torizuka, Ozawa, Tatsumi, Hashido, Morikawa, Maeda, Imai: "Mutational analysis of HRAS and KRAS genes in oral carcinoma cell lines." in: Odontology / the Society of the Nippon Dental University , Vol. 100, Issue 2, pp. 149-55, (2012) (PubMed).
	Ma, Liu, Wu, Terada: "p66(Shc) restrains Ras hyperactivation and suppresses metastatic behavior." in: Oncogene , Vol. 29, Issue 41, pp. 5559-67, (2010) (PubMed).

Images



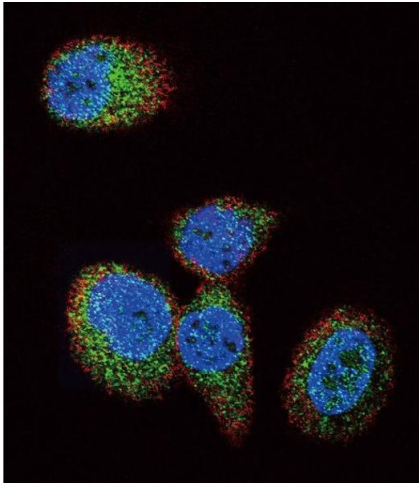
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin-embedded human lung carcinoma tissue reacted with HRAS antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated.



Western Blotting

Image 2. Western blot analysis of anti-HRAS Antibody (Center) (ABIN392183 and ABIN2841894) in Jurkat cell line lysates (35 µg/lane). HRAS (arrow) was detected using the purified Pab.



Immunofluorescence

Image 3. Confocal immunofluorescent analysis of HRAS Antibody (Center) (ABIN392183 and ABIN2841894) with MCF-7 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). Actin filaments have been labeled with Alexa Fluor 555 phalloidin (red). DAPI was used to stain the cell nuclear (blue).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN392183.