Datasheet for ABIN302083

anti-HRAS antibody

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Overview

Quantity:	0.1 mg
Target:	HRAS
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This HRAS antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	Peptide corresponding to amino acids DIHQYREQIKRVKDSDDC of human H-Ras protein
Clone:	H-RAS-03
Isotype:	IgG1
Specificity:	The mouse monoclonal antibody H-RAS-03 reacts with human H-Ras, an ubiquitously expressed 21 kDa intracellular protein. Although reactivity with other species has not been determined, it is probable as the epitope is highly conserved among animals.
Cross-Reactivity (Details):	Human, Other not determined
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

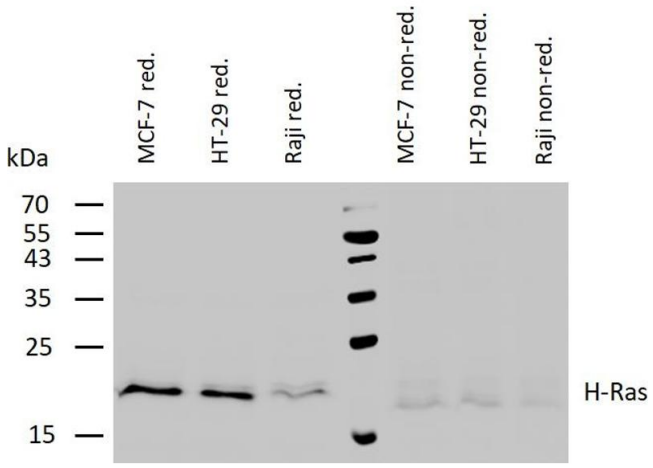
Target:	HRAS
Alternative Name:	H-Ras (HRAS Products)
Background:	HRas proto-oncogene,H-Ras is one of three ubiquitously isoforms of Ras GTPase that operate at the intracellular leaflet of the plasma membrane to regulate multiple signal transduction pathways, such as mitogen-activated protein kinase (MAPK) cascade. H-Ras is anchored to the plasma membrane by farnesyl and two palmityl residues. GTP loading decreases H-Ras affinity for lipid rafts and allows the protein to target to nonraft microdomains, the primary sites of H-Ras signaling. Sos protein and other guanine nucleotide-exchange factors catalyze dissociation of GDP from Ras. Besides its roles in the plasma membrane, active H-Ras also diffuses through the cytoplasm on nanoparticles termed rasosomes, which is dependent on Ras palmitoylation.,Ras-H, HRAS, p21Ras
Gene ID:	3265
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:	Western blotting: Recommended dilution: 1-2 µg/mL, reducing conditions.
Restrictions:	For Research Use only

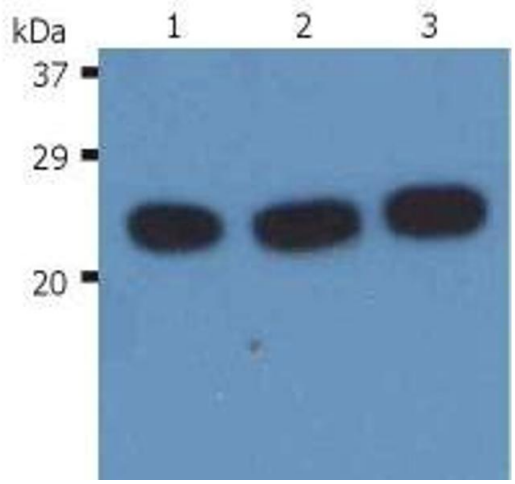
Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM 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.
Handling Advice:	**Do not freeze.**
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.



Western Blotting

Image 1. Western blotting analysis of human H-Ras using mouse monoclonal antibody H-Ras-03 on lysates of various cell lines under reducing and non-reducing conditions. Nitrocellulose membrane was probed with 2 µg/mL of mouse anti-H-Ras monoclonal antibody followed by IRDye800-conjugated anti-mouse secondary antibody. A specific band was detected for H-Ras at approximately 19 kDa.



Western Blotting

Image 2. Western Blotting analysis (reducing conditions) of H-Ras in whole cell lysate using anti-H-Ras (H-RAS-03). Lane 1: HeLa human cervix carcinoma cell line Lane 2: K567 human leukemia cell line Lane 3: RAJI human Burkitt lymphoma cell line