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Anti-NRAS/HRAS/KRAS Antibody

Catalog # AP53683

Product Information

Application	WB, IHC, IF/IC
Primary Accession	P01111
Other Accession	P01112, P01116
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	21229

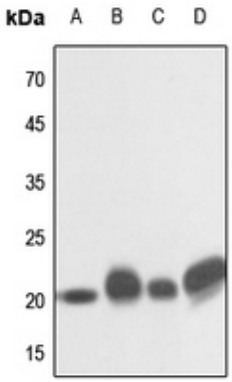
Additional Information

Gene ID	4893
Other Names	NRAS; HRAS1; GTPase NRas; Transforming protein N-Ras; HRAS; HRAS1; GTPase HRas; H-Ras-1; Ha-Ras; Transforming protein p21; c-H-ras; p21ras; KRAS; KRAS2; RASK2; GTPase KRas; K-Ras 2; Ki-Ras; c-K-ras; c-Ki-ras
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human NRAS/HRAS/KRAS. The exact sequence is proprietary.
Dilution	WB~~1/500 - 1/1000 IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

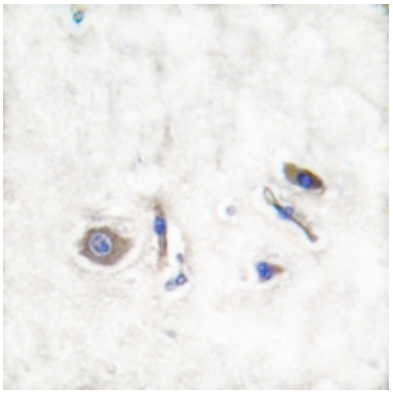
Protein Information

Name	NRAS
Synonyms	HRAS1
Function	Signal transducer in the Ras-MAPK signaling pathway that regulates cell proliferation and survival (PubMed:30712867). Ras proteins bind GDP/GTP and possess intrinsic GTPase activity (PubMed:30712867). Recognized by LZTR1 that mediates its ubiquitination by a BCR (BTB-CUL3-RBX1) E3 ubiquitin-protein ligase complex (PubMed:40934300).
Cellular Location	Cell membrane; Lipid-anchor; Cytoplasmic side. Golgi apparatus membrane; Lipid-anchor Note=Shuttles between the plasma membrane and the Golgi apparatus

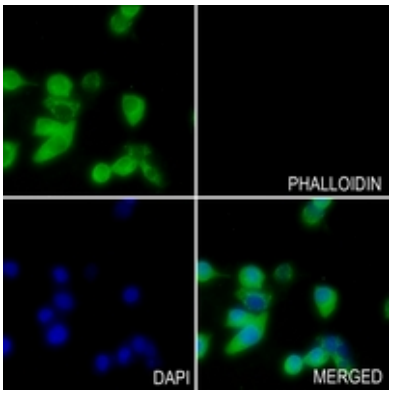
Images



Western blot analysis of NRAS/HRAS/KRAS expression in H446 (A), mouse kidney (B), mouse testis (C), rat kidney (D) whole cell lysates. (Predicted band size: 21 kD; Observed band size: 21 kD)



Immunohistochemical analysis of NRAS/HRAS/KRAS staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of NRAS/HRAS/KRAS staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.