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Human pan-RAS antibody

Catalog Number: ATGA0573

PRODUCT INFORMATION

Catalog number

ATGA0573

Clone No.

AT2G9

Product type

Monoclonal antibody

UnitProt No.

P01111

NCBI Accession No.

NP 002515

Alternative Names

Neuroblastoma RAS viral (v-ras) oncogene homolog, GTPase NRas, HRAS1, ALPS4, N-ras, NRAS1, NS6,Neuroblastoma RAS viral (v-ras) oncogene homolog OTTMuSP00000023521, AV095280, N ras, N rasprotein part 4, Neuroblastoma RAS viral (v ras) oncogene homolog, OTTHuMP00000013879,Transforming protein N Ras, v ras neuroblastoma RAS viral oncogene homolog

Additional Information

This product was produced from tissue culture supernatant. Ras Antibody detects endogenous levels of total K-Ras, H-Ras, and N-Ras(cell signaling).

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Human

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human NRAS (1-186aa) purified from E. coli

Isotype

IgG2a kappa

Purification Note

By protein-A affinity chromatography

Application

ELISA, WB, FACS



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Usage

The antibody has been tested by ELISA, Western blot and FACS analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

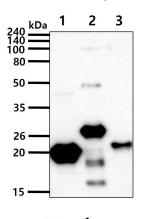
The Ras protein is a subfamily of small GTPases that are involved in signal transduction. They are activated by ligand-binding receptor tyrosine kinases such as EGFR, PDGFR, CSF and FGF. These kinasestransiently convert RAS-GDP (inactive form) to RAS-GTP, the active form of RAS. The main genes are HRAS, NRAS and KRAS.

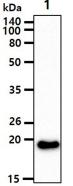
General References

Rocks O, et al. (2006). Current Opinion in Cell Biology 18 (4): 351-7. Wennerberg K, et al. (March 2005). J. Cell. Sci. 118 (Pt 5): 843-6. Rotblat B, et al. (2008). Methods Enzymol 439: 467-89.

DATA

Western blot analysis (WB)





The recombinant proteins (50ng) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human RAS antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: Recombinant human NRAS protein Lane 2.: Recombinant human KRAS protein Lane 3.: Recombinant human HRAS protein

The cell lysate(40ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human RAS antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

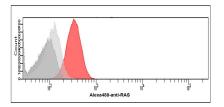
Lane 1.: 293T cell lysate

Flow cytometry (FACS)

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Flow cytometry analysis of RAS in HeLa cells. The cell was stained with ATGA0573 at 2-5ug for $1x10^6$ (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mousemonoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).

