NKMAXBiO We support you, we believe in your research Human RalA/RalB antibody Catalog Number: ATGA0590

# **PRODUCT INFORMATION**

Catalog number ATGA0590

Clone No. AT41E2

**Product type** Monoclonal antibody

**UnitProt No.** P11233

NCBI Accession No. NP\_005393

Alternative Names Ras-related protein Ral-A, RAL,Ras-related protein Ral-B

# **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 RALA (1-203aa) purified from E. coli

# lsotype

lgG2b kappa

**Purification Note** By protein-A affinity chromatography

#### Application

ELISA, WB, FACS

#### 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

For research use only. This product is not intended or approved for human, diagnostics or veterinary use. Website: www.nkmaxbio.com email: supportbio@nkmax.com



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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

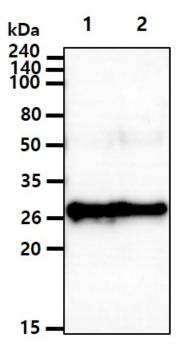
RalA and RalB belong to subfamily of Ras-related GTPases. This protein mediates a distinct downstream signaling pathway from Ras that facilitates cellular transformation. It is also thought to be involved in numerous signaling cascades, including regulation of the cytoskeleton, vesicletrafficking, and endocytosis. RalA and RalB share 85% identity.

#### **General References**

Balasubramanian N., et al. (2009) Curr. Biol. 20:75-79. Hunt MC., et al. (2005) J Lipid Res. 46, 2029-32. Wildey G.M., et al. (1993), Biochem. Biophys. Res. Comm., 194: 552-559. Jullien-Flores V., et al. (1995). J. Biol. Chem. 270: 22473-22477.

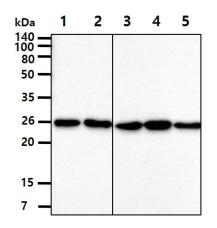
## DATA

#### Western blot analysis (WB)



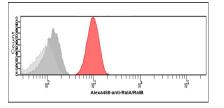
The recombinant proteins (50ng) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human RalA/RalB antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: Recombinant human RalA protein Lane 2.: Recombinant human RalB protein NKMAXBiO we support you, we believe in your research Human RalA/RalB antibody Catalog Number: ATGA0590



The cell lysates(40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human RalA/RalB antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: HeLa cell lysate Lane 2.: HepG2 cell lysate Lane 3.: NIH3T3 cell lysate Lane 4.: PC3 cell lysate Lane 5.: U87MG cell lysate

Flow cytometry (FACS)



Flow cytometry analysis of RalA/RalB in HeLa cells. The cell was stained with ATGA0590 at 2-5ug for  $1x10^{6}$  cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal 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).