

# Human RAB5A antibody

Catalog Number: ARA0803

## PRODUCT INFORMATION

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**Catalog number**

ARA0803

**Clone No.**

3A4

**Product type**

Monoclonal Antibody

**UnitProt No.**

P20339

**NCBI Accession No.**

NP\_004153

**Alternative Names**

RAB5A member RAS oncogene family, Ras-related protein Rab-5A, RAS-associated protein RAB5A, RAB5

## PRODUCT SPECIFICATION

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**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 Rab5a (1-215aa) purified from E. coli

**Isotype**

IgG2b kappa

**Purification Note**

By protein-G affinity chromatography

**Application**

ELISA, WB, ICC/IF

**Usage**

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

**Storage**

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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

Rab5a is a member of the RAS oncogene family. Rab5a is a small GTPase localized to the plasma membrane and early endosomes. It is a crucial regulatory component of the endocytic pathway. Activation of Rab5a is mediated by GDP-GTP exchange factors (GEFs) that generate the Rab5-GTP complex.

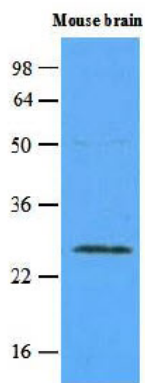
### General References

Bucci C, et al., (1992) Cell 70 (5): 715-28.

Seachrist JL, et al., (2002) J. Biol. Chem. 277 (1): 679-85.

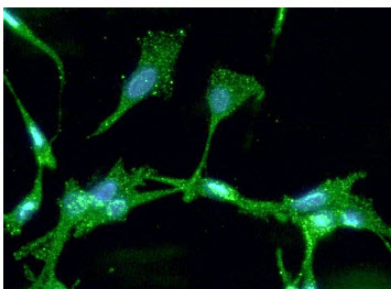
## DATA

### Western blot analysis (WB)



The tissue lysate of mouse brain (45ug) was resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human Rab5a (1:500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

### Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of Rab5a in U87MG cells. The cell was stained with ARA0803 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).