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# Rab 2A Polyclonal Antibody

Catalog # AP72107

## Product Information

| | |
|---|---|
| **Application** | WB, IHC-P, IF, ICC, E |
| **Primary Accession** | P61019 |
| **Reactivity** | Human, Mouse, Rat |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 23546 |

## Additional Information

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|---|---|
| **Gene ID** | 5862 |
| **Other Names** | RAB2A; RAB2; Ras-related protein Rab-2A |
| **Dilution** | WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/20000. Not yet tested in other applications. IHC-P~~N/A IF~~1:50~200 ICC~~N/A E~~N/A |
| **Format** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide. |
| **Storage Conditions** | -20℃ |

## Protein Information

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|---|---|
| **Name** | RAB2A ( HGNC:9763) |
| **Synonyms** | RAB2 |
| **Function** | The small GTPases Rab are key regulators of intracellular membrane trafficking, from the formation of transport vesicles to their fusion with membranes. Rabs cycle between active GTP-bound and inactive GDP-bound states. In their active state, drive transport of vesicular carriers from donor organelles to acceptor organelles to regulate the membrane traffic that maintains organelle identity and morphology (PubMed:37821429). RAB2A regulates autophagy by promoting autophagosome-lysosome fusion via recruitment of the HOPS endosomal tethering complex; this process involves autophagosomal RAB2A and lysosomal RAB39A recruitment of HOPS subcomplexes VPS39-VPS11 and VPS41-VPS16-VPS18-VPS33A, respectively, which assemble into a functional complex to mediate membrane tethering and SNAREs-driven membrane fusion (PubMed:37821429). Required for protein transport from the endoplasmic reticulum to the Golgi complex. Regulates the compacted morphology of the Golgi (PubMed:26209634). Together with RAB2B, redundantly required for efficient autophagic flux |

(PubMed:28483915).

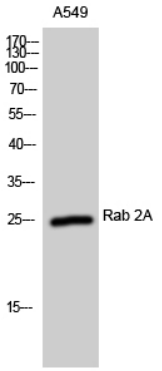
**Cellular Location**

Endoplasmic reticulum-Golgi intermediate compartment membrane; Lipid-anchor; Cytoplasmic side Melanosome. Endoplasmic reticulum membrane; Lipid-anchor; Cytoplasmic side. Golgi apparatus membrane; Lipid-anchor; Cytoplasmic side. Cytoplasmic vesicle, secretory vesicle, acrosome {ECO:0000250|UniProtKB:P53994}. Cytoplasmic vesicle, autophagosome membrane {ECO:0000250|UniProtKB:P53994}; Lipid-anchor; Cytoplasmic side Note=Localized in the Golgi apparatus in the round spermatids and in the acrosome in the elongating spermatid (By similarity). Identified by mass spectrometry in melanosome fractions from stage I to stage IV (PubMed:17081065). {ECO:0000250|UniProtKB:P53994, ECO:0000269|PubMed:17081065}

## Background

Required for protein transport from the endoplasmic reticulum to the Golgi complex.

## Images




Western Blot analysis of A549 cells using Rab 2A Polyclonal Antibody

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