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Datasheet for 600-401-994

# Rab11 FIB3 Antibody

## Overview

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| **Description:** | Anti-Rab11 Family-Interacting Protein 3 (FIP3) (RABBIT) Antibody - 600-401-994 |
| **Item No.:** | 600-401-994 |
| **Size:** | 100 µg |
| **Applications:** | ELISA, WB |
| **Reactivity:** | Human |
| **Host Species:** | Rabbit |

## Product Details

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| **Background:** | This antibody is designed, produced, and validated as part of a collaboration between Rockland and the National Cancer Institute (NCI). Rab11 Family-Interacting Protein 3 (FIP3)/Arfophilin-1 and FIP4/Arfophilin-2 are dual effectors for Rab11 and the ADP-ribosylation factor Arf6. Rab11 and Arf6 are involved in membrane delivery from recycling endosomes to the plasma membrane during cytokinesis. The dual Rab11/Arf6 binding proteins, FIP3 and FIP4, function in the delivery of recycling endosomes to the cleavage furrow and are, together with Rab11, essential for completion of abscission, the terminal step of cytokinesis. An interaction between Rab11-FIP3 and ASAP1 has also been identified. ASAP1 is an Arf GTPase-activating protein that has been implicated in the invasive properties of uveal melanoma and mammary carcinoma. Therefore, may play a role in breast cancer cell motility by regulating actin cytoskeleton. Also, acts as an adapter protein linking the dynein motor complex to various cargos and converts dynein from a non-processive to a highly processive motor in the presence of dynactin. Facilitates the interaction between dynein and dynactin and activates dynein processivity (the ability to move along a microtubule for a long distance without falling off the track). Anti-Rab11 Antibody is useful for researchers interested in organelle transport, endocytosis, and cancer research. |
| **Synonyms:** | rabbit anti-Rab11-FIP3 antibody, Rabbit anti-Rab11 family-interacting protein 3 antibody, rabbit anti-FIP3-Rab11 antibody, Arfophilin-1, Eferin, EF hands-containing Rab-interacting protein, ARFO1, Rab 11, FIP 3 |
| **Host Species:** | Rabbit |
| **Clonality:** | Polyclonal |
| **Format:** | IgG |

## Target Details

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| **Gene Name:** | RAB11FIP3 |
| **Reactivity:** | Human |
| **Immunogen Type:** | Recombinant Protein |
| **Immunogen:** | This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a recombinant protein corresponding to amino acids spanning the carboxyl terminal one-third of human FIP3. |
| **Purity/Specificity:** | This affinity purified antibody is directed against human FIP3 protein. The product was affinity purified from monospecific antiserum by immunoaffinity chromatography. A BLAST analysis was used to suggest cross-reactivity with Rab11 protein from mouse based on approximately 92% protein:protein homology over the region of the immunizing sequence. Reactivity against homologues from other sources is not known. |
| **Relevant Links:** | • NCBI - 7662234<br>• UniProtKB - O75154<br>• GeneID - 9727 |

## Application Details

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| **Tested Applications:** | ELISA, WB |
| **Application Note:** | This affinity purified antibody has been tested for use in ELISA and western blotting. Specific conditions for reactivity should be optimized by the end user. Although the predicted molecular weight of FIP3 is 82.4 kDa, a band corresponding to FIP3 was observed at 120 kDa in human cell lysates and at 150 kDa in mouse cell lysates. The identity of a 40 kDa band, observed in western blotting against both HeLa and 293T cell lysates, is unknown (personal communication, P. Randazzo, CCR-NCI, Bethesda, MD). |
| **Assay Dilutions:** | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below. |
| **ELISA:** | 1:2,000 - 1:10,000 |
| **IHC:** | User Optimized |
| **WB:** | 1:200 - 1:2,000 |

## Formulation

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| **Physical State:** | Liquid (sterile filtered) |

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| **Concentration:** | 1.19 mg/mL by UV absorbance at 280 nm |
| **Buffer:** | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 |
| **Preservative:** | 0.01% (w/v) Sodium Azide |
| **Stabilizer:** | None |

## Shipping & Handling

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| **Shipping Condition:** | Dry Ice |
| **Storage Condition:** | Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. |
| **Expiration:** | Expiration date is one (1) year from date of receipt. |

## Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.