Datasheet for 600-401-DN7

# PIK3R4 Antibody

## Overview

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| **Description:** | Anti-PIK3R4 (RABBIT) Antibody - 600-401-DN7 |
| **Item No.:** | 600-401-DN7 |
| **Size:** | 100 µg |
| **Applications:** | ELISA, IF, IHC, WB |
| **Reactivity:** | Human, Mouse, Rat |
| **Host Species:** | Rabbit |

## Product Details

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| **Background:** | PIK3R4 (phosphoinositide-3-kinase regulatory subunit 4, also known as VPS15) is a 150kD adaptor protein that enhances the lipid kinase activity of PIK3 complexes and may be involved in regulating membrane trafficking late in the endocytic pathway and autophagy (1,2). PIK3R4 is ubiquitously expressed and contains 7 WD repeats, 3 HEAT repeats and 1 protein kinase domain (1). PIK3R4 is crucial for VPS34 function and is necessary for autophagosome formation in multicellular animals and reveal an important role of VPS15 in cellular protection against ubiquitin-positive protein aggregates (3-5). |
| **Synonyms:** | Phosphoinositide-3-kinase regulatory subunit 4, p150, Phosphoinositide 3-kinase adaptor protein, PI3-kinase p150 subunit, PI3-kinase regulatory subunit 4, VPS15 |
| **Host Species:** | Rabbit |
| **Clonality:** | Polyclonal |
| **Format:** | IgG |

## Target Details

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| **Gene Name:** | PIK3R4 |
| **Reactivity:** | Human, Mouse, Rat |
| **Immunogen Type:** | Conjugated Peptide |
| **Immunogen:** | Anti-PIK3R4 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 19 amino acid peptide near the C-terminus of human PIK3R4. |

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| **Purity/Specificity:** | Anti-PIK3R4 antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. PIK3R4 antibody is human, mouse and rat reactive. |
| **Relevant Links:** | • UniProtKB - Q99570<br>• GeneID - 30849<br>• NCBI - NP_055417 |

## Application Details

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| **Tested Applications:** | ELISA, IF, IHC, WB |
| **Application Note:** | Anti-PIK3R4 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 153 kDa in Western Blots of specific cell lysates and tissues. |
| **Assay Dilutions:** | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below. |
| **ELISA:** | 1:10,000 - 1:20,000 |
| **IF:** | 20 µg/mL |
| **IHC:** | 5 µg/mL |
| **WB:** | 1-2 µg/mL |

## Formulation

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| **Physical State:** | Liquid (sterile filtered) |
| **Concentration:** | 1 mg/mL by UV absorbance at 280 nm |
| **Buffer:** | 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2 |
| **Preservative:** | 0.02% (w/v) Sodium Azide |
| **Stabilizer:** | None |

## Shipping & Handling

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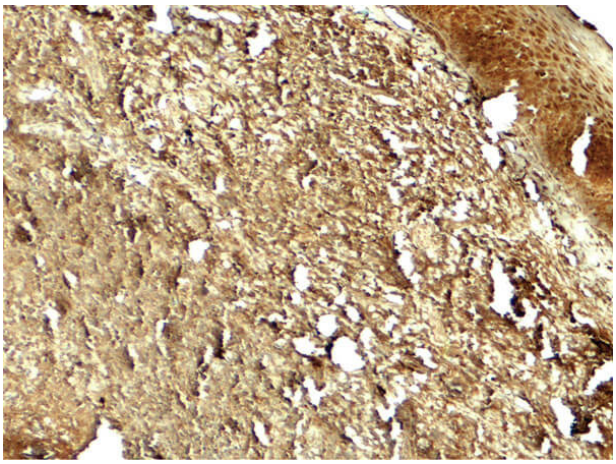
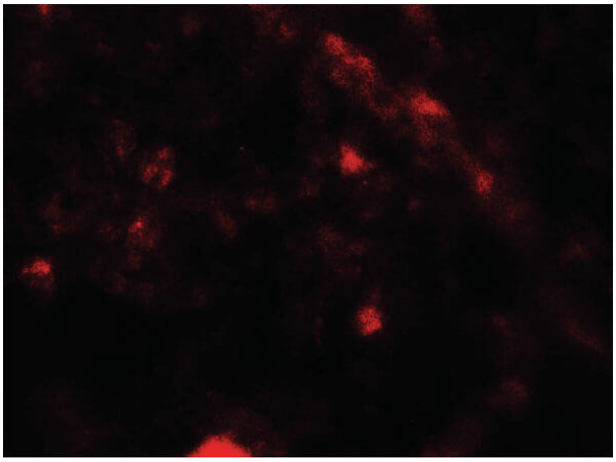
| **Shipping Condition:** | Dry Ice |
| **Storage Condition:** | Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product 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.

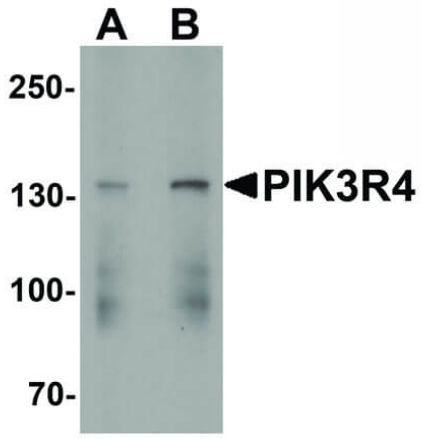
## Images



**Immunohistochemistry**
Immunohistochemistry of Rabbit anti-PIK3R4 antibody. Tissue: human tonsil. Primary antibody: PIK3R4 antibody at 5 µg/mL. Secondary antibody: Peroxidase rabbit secondary antibody at 1:5,000. Localization: PIK3R4 is located on the endosome and membrane. Staining: PIK3R4 as precipitated brown signal.



**Immunofluorescence Microscopy**
Immunofluorescence Microscopy of Rabbit anti-PIK3R4 antibody. Tissue: human tonsil. Primary antibody: PIK3R4 antibody at 20 µg/mL. Secondary antibody: Fluorescein rabbit secondary antibody at 1:20,000. Localization: PIK3R4 is located on the endosome and membrane. Staining: PIK3R4 as red fluorescent signal.




**Western Blot**

Western Blot of Rabbit anti-PIK3R4 antibody. Lane A: human tonsil tissue lysate at 1 µg/mL. Lane B: human tonsil tissue lysate at 2 µg/mL. Primary antibody: PIK3R4 antibody overnight at 4℃. Secondary antibody: Goat anti-Rabbit HRP secondary antibody. Block: 5% BLOTTO. Predicted/Observed size: 149 kDa, 140 kDa for PIK3R4.

## 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.