Datasheet for 200-401-BK7

# GFR alpha 3 Antibody

## Overview

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| **Description:** | Anti-GFR alpha 3 (RABBIT) Antibody - 200-401-BK7 |
| **Item No.:** | 200-401-BK7 |
| **Size:** | 100 µg |
| **Applications:** | ELISA, IF, IHC, WB |
| **Reactivity:** | Human, Mouse, Rat |
| **Host Species:** | Rabbit |

## Product Details

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| **Background:** | Members of the glial cell line-derived neurotrophic factor (GDNF) family, including GDNF and neurturin (NTN) play essential roles in the control of vertebrate neuron survival and differentiation. A new member of the GDNF family was recently identified and designated persephin. Physiological responses to these neurotrophic factors require two receptor subunits, the novel glycosylphosphadidylinositol linked protein GFRa and Ret receptor tyrosine kinase GFRbeta. Following the findings of GFRa-1 and -2, a novel receptor in GFRa family was identified very recently from human and mouse and designated GFRa-3. GFRa-3 binds persephin, thus, persephin, GFRa-3, and Ret PTK form a complex to transduce persephin signal and to mediate persephin function. |
| **Synonyms:** | GFR alpha 3 Antibody, Y15110, GFRalpha3, GDNF family receptor alpha-3, GDNF receptor alpha-3 |
| **Host Species:** | Rabbit |
| **Clonality:** | Polyclonal |
| **Format:** | IgG |

## Target Details

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| **Gene Name:** | Gfra3 |
| **Reactivity:** | Human, Mouse, Rat |
| **Immunogen Type:** | Conjugated Peptide |

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| **Immunogen:** | Anti-GFR alpha 3 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 14 amino acid peptide near the internal region of murine GFR alpha 3. |
| **Purity/Specificity:** | Anti-GFR alpha 3 Antibody is purified by DEAE purification methods. Cross reactivity with GFR alpha 3 from other sources has not been determined. |
| **Relevant Links:** | • UniProtKB - O35118<br>• GeneID - 14587<br>• NCBI - ab008833 |

## Application Details

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| **Tested Applications:** | ELISA, IF, IHC, WB |
| **Application Note:** | Anti-GFR alpha 3 Antibody has been tested for use in ELISA, Western Blotting, immunofluorescence, and Immunohistochemistry. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 44 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:** | 1:5,000 |
| **IHC:** | 10 µg/mL |
| **WB:** | 0.5 µg/mL |

## Formulation

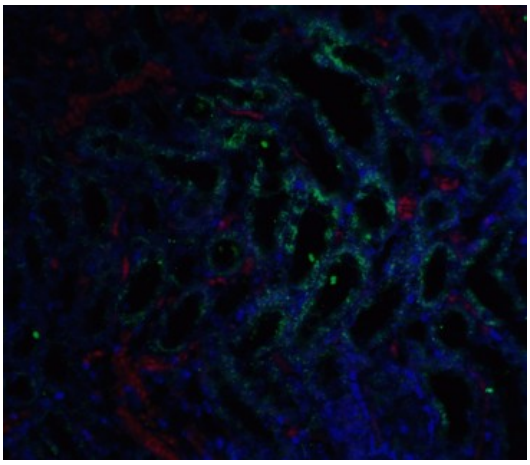
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| **Physical State:** | Liquid (sterile filtered) |
| **Concentration:** | 1 mg/mL by UV absorbance at 280 nm |
| **Buffer:** | 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2 |
| **Preservative:** | 0.02% (w/v) Sodium Azide |
| **Stabilizer:**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

## Shipping & Handling

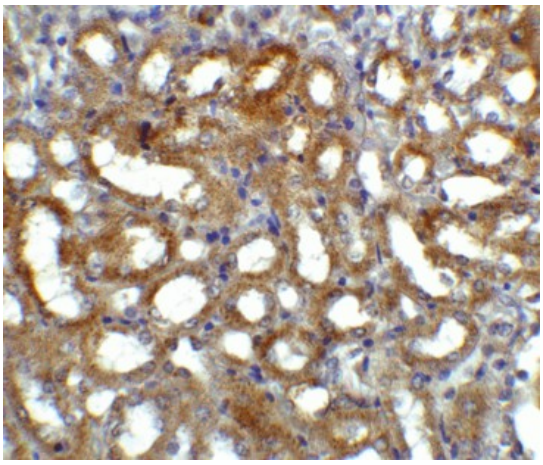
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| **Shipping Condition:** | Dry Ice |

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| **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. |

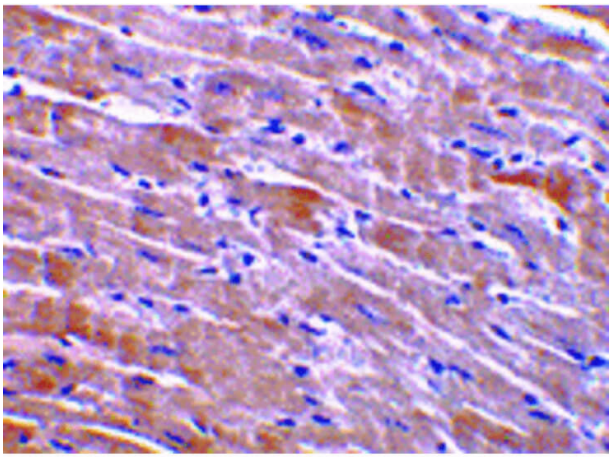
## Images



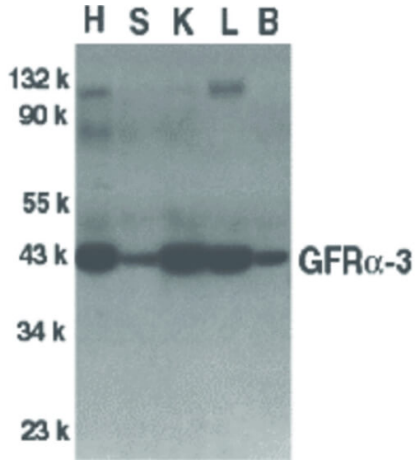
**Immunofluorescence Microscopy**
Immunofluorescence of GFR alpha 3 in mouse kidney tissue with GFR alpha 3 antibody at 5 µg/ml.
Green: GFR alpha 3 antibody.
Red: Phylloidin staining.
Blue: DAPI staining.



**Immunohistochemistry**
Immunohistochemistry of GFR alpha 3 in mouse kidney tissue with GFR alpha 3 antibody at 5 µg/ml.



**Immunohistochemistry**
Immunohistochemistry of Rabbit anti-GFR alpha 3 antibody. Tissue: mouse heart tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: anti-GFR alpha 3 antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: GFR alpha 3 is membrane bound. Staining: GFR alpha 3 as precipitated brown signal with hematoxylin blue nuclear counterstain.




**Western Blot**
Western Blot of Rabbit anti-GFR alpha 3 antibody. Lane 1: mouse heart (H). Lane 2: mouse spleen (S). Lane 3: mouse kidney (K). Lane 4: mouse liver (L). Lane 5: mouse brain (B). Load: 35 µg per lane. Primary antibody: anti-GFR alpha 3 antibody at 1:500 for overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C.
Predicted/Observed size: 44.3 kDa, 43 kDa for GFR alpha 3.
Other band(s): GFR alpha 3 splice variants and isoforms.

## 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.