Datasheet for ABIN233824

# anti-TRKCT1 (C-Term) antibody

3 Images

Go to Product page

## Overview

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|---|---|
| Quantity: | 100 µg |
| Target: | TRKCT1 |
| Binding Specificity: | C-Term |
| Reactivity: | Mouse, Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Application: | Immunoprecipitation (IP), Western Blotting (WB), ELISA |

## Product Details

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| Purpose: | TrkCT1 Antibody |
| Immunogen: | Immunogen: This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to amino acids near the carboxyl terminus of mouse TrkCT1 protein.<br>Immunogen Type: Conjugated Peptide |
| Isotype: | IgG |
| Cross-Reactivity (Details): | This affinity purified antibody is directed against mouse TrkCT1 protein. |
| Characteristics: | Synonyms: rabbit anti-TrkCT1 antibody, rabbit anti-Ntrk3 antibody, TrkCT-1, NT-3 growth factor receptor, GP145-TrkC, Trk-C, ETV6 NTRK3 fusion antibody, GP145 TrkC antibody, GP145TrkC antibody, Neurotrophic tyrosine kinase receptor type 3 antibody, TrkC tyrosine kinase, TrkC NC2 |
| Purification: | The product was affinity purified from monospecific antiserum by immunoaffinity chromatography. |

## Product Details

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| Sterility: | Sterile filtered |

## Target Details

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| Target: | TRKCT1 |
| Background: | Background: This antibody is designed, produced, and validated as part of a collaboration with the National Cancer Institute (NCI) and is suitable for Cancer, Immunology and Nuclear Signaling research. TrkCT1, also named neurotrophic tyrosine kinase receptor type 3 (Ntrk3) non-catalytic isoform 2, is a non-catalytic isoform of TrkC, the high affinity receptor for Neurotrophin-3 (NT-3). This isoform lacks the kinase domain that is responsible for signaling by the full-length isoform. TrkCT1 is the product of an alternative splicing of Ntrk3 that leaves the extracellular and transmembrane domains intact but includes a shorter intracellular domain encoded by exons 13b and 14b. Recent studies indicate that the short cytoplasmic tail binds the scaffold protein Tamalin in a ligand-dependent manner and further activates the Arf6-Rac1 signaling pathway. Isoform 3 transcripts are readily detected early during embryogenesis and are expressed predominantly in adult brain and gonads. |
| Gene ID: | 18213, 33413429 |
| UniProt: | Q6VNS1 |

## Application Details

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| Application Notes: | Application Note: This affinity purified antibody has been tested for use in ELISA, IP, and western blotting. Specific conditions for reactivity should be optimized by the end user. While the predicted molecular weight for TrkCT1 is approximately 68 kDa, the protein has been reported to migrate at about 95 kDa on western blots. The molecular weight noted for TrkCT1 depends somewhat upon the cell lysate or extract used for western blotting, and this variation may be due to post-translational modifications of the protein.<br>Western Blot Dilution: 1:1,000 - 1:10,000<br>Immunoprecipitation Dilution: 1 µg<br>ELISA Dilution: 1:5,000 - 1:20,000<br>Other: User Optimized |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Liquid |

## Handling

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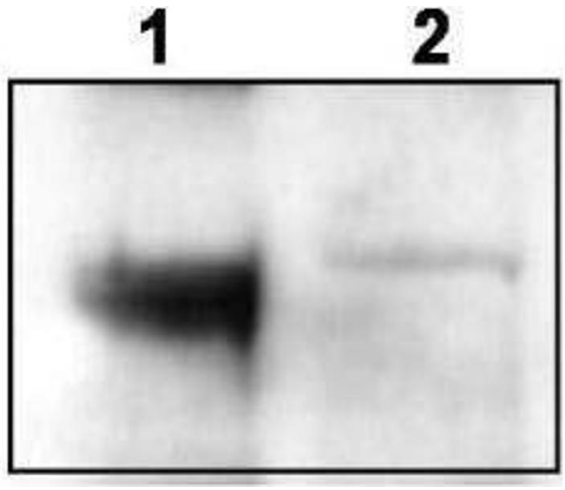
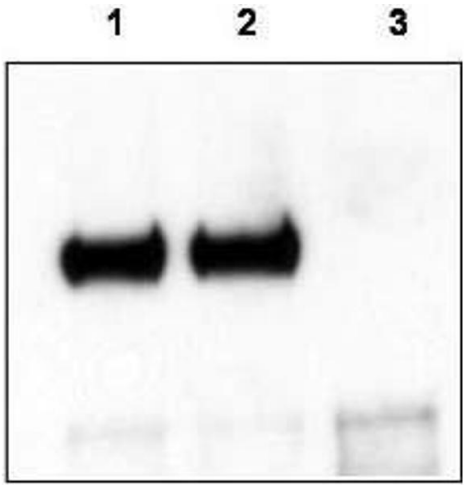
| Concentration: | 1.53 mg/mL |
| Buffer: | Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2<br>Stabilizer: None<br>Preservative: 0.01 % (w/v) Sodium Azide |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | 4 °C,-20 °C |
| Storage Comment: | 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. |
| Expiry Date: | 12 months |

## Images



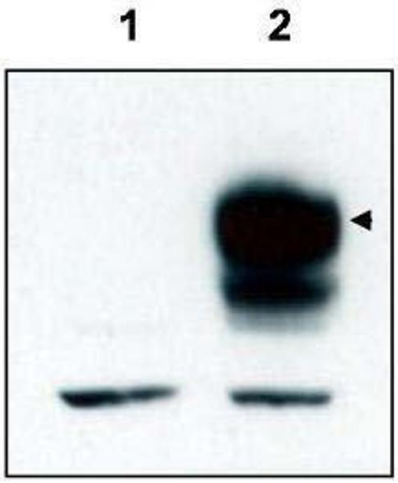

**Western Blotting**

**Image 1.** Western blot using affinity purified anti-TrkCT1 to detect endogenous TrkCT1 in mouse cortex lysate (Lane 1). Lane 2 is TrkCT1 knock-out cortex lysate. Cell extracts were resolved by electrophoresis and transferred to nitrocellulose. The membrane was probed with the primary antibody at a 1:6,000 dilution. Personal Communication, V. Coppola, CCRNCI, Frederick, MD.




**Western Blotting**

**Image 2.** Mouse cortex lysate was immunoprecipitated with anti-TrkCT1 antibody and further blotted with affinity purified anti-TrkCT1. Lane 1 is wild-type cortex lysate, Lane 2 is Tamalin knock-out cortex lysate, and Lane 3 is TrkCT1 knock-out cortex lysate. The membrane was probed with the primary antibody at a 1:6,000 dilution. Personal Communication, V. Coppola, CCR-NCI, Frederick, MD.




**Western Blotting**

**Image 3.** Western blot using affinity purified anti-TrkCT1 to detect over-expressed TrkCT1 in HEK293 cells (Lane 2, arrowhead). Lane 1 is a non-transfected control. Cell extracts were resolved by electrophoresis and transferred to nitrocellulose. The membrane was probed with the primary antibody at a 1:3,000 dilution. Personal Communication, V. Coppola, CCR-NCI, Frederick, MD.