

Resource Summary Report

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TrkB (80E3) Rabbit mAb

RRID:AB_2155125

Type: Antibody

Proper Citation

(Cell Signaling Technology Cat# 4603, RRID:AB_2155125)

Antibody Information

URL: http://antibodyregistry.org/AB_2155125

Proper Citation: (Cell Signaling Technology Cat# 4603, RRID:AB_2155125)

Target Antigen: Ntrk2

Host Organism: rabbit

Clonality: monoclonal

Comments: Applications: W. Consolidation on 10/2018: AB_10235315, AB_10830894, AB_2155125.

Info: Independent validation by the NYU Lagone was performed for: IHC. This antibody was found to have the following characteristics: Functional in human:FALSE, NonFunctional in human:FALSE, Functional in animal:FALSE, NonFunctional in animal:FALSE

Antibody Name: TrkB (80E3) Rabbit mAb

Description: This monoclonal targets Ntrk2

Target Organism: rat, mouse, human

Antibody ID: AB_2155125

Vendor: Cell Signaling Technology

Catalog Number: 4603

Record Creation Time: 20241016T224144+0000

Ratings and Alerts

- Independent validation by the NYU Langone was performed for: IHC. This antibody was found to have the following characteristics: Functional in human:FALSE, NonFunctional in human:FALSE, Functional in animal:FALSE, NonFunctional in animal:FALSE - NYU Langone's Center for Biospecimen Research and Development
<https://med.nyu.edu/research/scientific-cores-shared-resources/center-biospecimen-research-development>

No alerts have been found for TrkB (80E3) Rabbit mAb.

Data and Source Information

Source: [Antibody Registry](#)

Usage and Citation Metrics

We found 23 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Caffino L, et al. (2024) Chronic Lithium Treatment Alters NMDA and AMPA Receptor Synaptic Availability and Dendritic Spine Organization in the Rat Hippocampus. *Current neuropharmacology*, 22(12), 2045.

Sadighi M, et al. (2024) Chronic exposure to imipramine induces a switch from depression-like to mania-like behavior in female serotonin transporter knockout rats: Role of BDNF signaling in the infralimbic cortex. *Journal of affective disorders*, 351, 128.

Weesner JA, et al. (2024) Altered GM1 catabolism affects NMDAR-mediated Ca²⁺ signaling at ER-PM junctions and increases synaptic spine formation in a GM1-gangliosidosis model. *Cell reports*, 43(5), 114117.

Cararo-Lopes MM, et al. (2024) Overexpression of ?-Klotho isoforms promotes distinct Effects on BDNF-Induced Alterations in Dendritic Morphology. *Molecular neurobiology*, 61(11), 9155.

Fazzari M, et al. (2024) GM1 Oligosaccharide Ameliorates Rett Syndrome Phenotypes In Vitro and In Vivo via Trk Receptor Activation. *International journal of molecular sciences*, 25(21).

Li HY, et al. (2023) A thalamic-primary auditory cortex circuit mediates resilience to stress. *Cell*, 186(7), 1352.

Xu FX, et al. (2023) Purkinje-cell-specific MeCP2 deficiency leads to motor deficits and autistic-like behavior due to aberrations in PTP1B-TrkB-SK signaling. *Cell reports*, 42(12), 113559.

Sequeira MK, et al. (2023) Cocaine and habit training cause dendritic spine rearrangement in the prelimbic cortex. *iScience*, 26(4), 106240.

Alitalo O, et al. (2023) Linking Hypothermia and Altered Metabolism with TrkB Activation. *ACS chemical neuroscience*, 14(17), 3212.

Yu J, et al. (2023) Neurotrophins and Their Receptors, Novel Therapeutic Targets for Pelvic Pain in Endometriosis, Are Coordinately Regulated by IL-1? via the JNK Signaling Pathway. *The American journal of pathology*, 193(8), 1046.

Li SS, et al. (2022) Electroacupuncture treatment improves motor function and neurological outcomes after cerebral ischemia/reperfusion injury. *Neural regeneration research*, 17(7), 1545.

Jeong YH, et al. (2022) Neuroprotective and Anti-Neuroinflammatory Properties of Vignae Radiatae Semen in Neuronal HT22 and Microglial BV2 Cell Lines. *Nutrients*, 14(24).

Chen Y, et al. (2022) Corticosterone antagonist or TrkB agonist attenuates schizophrenia-like behavior in a mouse model combining Bdnf-e6 deficiency and developmental stress. *iScience*, 25(7), 104609.

El Chehadeh S, et al. (2022) SLITRK2 variants associated with neurodevelopmental disorders impair excitatory synaptic function and cognition in mice. *Nature communications*, 13(1), 4112.

Veschtsanit N, et al. (2021) Melatonin reverts methamphetamine-induced learning and memory impairments and hippocampal alterations in mice. *Life sciences*, 265, 118844.

Wang X, et al. (2020) Astragaloside IV prevents A β 1-42 oligomers-induced memory impairment and hippocampal cell apoptosis by promoting PPAR γ /BDNF signaling pathway. *Brain research*, 1747, 147041.

Ma T, et al. (2020) Activation of brain-derived neurotrophic factor signaling in the basal forebrain reverses acute sleep deprivation-induced fear memory impairments. *Brain and behavior*, 10(4), e01592.

Tomita H, et al. (2020) The Protein Tyrosine Phosphatase Receptor Delta Regulates Developmental Neurogenesis. *Cell reports*, 30(1), 215.

Urbanska M, et al. (2019) GSK3 β activity alleviates epileptogenesis and limits GluA1 phosphorylation. *EBioMedicine*, 39, 377.

Torres-Cruz FM, et al. (2019) Do BDNF and NT-4/5 exert synergistic or occlusive effects on corticostriatal transmission in a male mouse model of Huntington's disease? *Journal of neuroscience research*, 97(12), 1665.