

Product Datasheet

TrkB [p Tyr816] Antibody - Azide and BSA Free NBP1-03499

Unit Size: 0.5 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP1-03499

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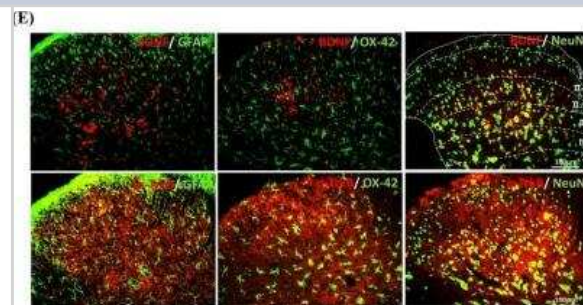
Product Information	
Unit Size	0.5 mg
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	No Preservative
Reconstitution Instructions	Reconstitute 0.5 mg size in 0.5 ml of sterile water. Centrifuge to remove any insoluble material. Glycerol may be added (1:1) for additional stability. Please note the 0.1 mg size is provided in reconstituted format.
Isotype	IgG
Purity	Ammonium sulfate precipitation
Buffer	Lyophilized from PBS

Product Description	
Host	Rabbit
Gene ID	4915
Gene Symbol	NTRK2
Species	Human, Mouse, Rat
Immunogen	A synthetic peptide from the region around (and including) phospho-Tyr816 site of rat TrkB conjugated to an immunogenic carrier protein was used as the immunogen. The peptide is homologous in human and mouse.

Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 10-50 ug/ml, Immunohistochemistry 10-50 ug/ml, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunohistochemistry-Paraffin 10-50 ug/ml, Immunohistochemistry-Frozen 10-50 ug/ml
Application Notes	This antibody has been used in IHC-Frozen as reported in scientific literature (PMID: 23432085), ICC/IF reported in scientific literature (PMID: 23658180).

Images

Immunocytochemistry/Immunofluorescence: TrkB [p Tyr816] Antibody [NBP1-03499] - Immunofluorescence double staining assay of BDNF and p-TrkB in the SDH. BDNF and p-TrkB (red), NeuN, GFAP, and OX-42 (green), co-localization (yellow). BDNF was mainly colocalized in neurons which mainly located in Laminate II to IV. And TrkB receptors expressed in neurons, microglia, and astrocytes. Image collected and cropped by CiteAb from the following publication (jneuroinflammation.biomedcentral.com/articles/10.1186/s12974-020-1704-0), licensed under a CC-BY license.



Publications

Doboszewska U, Soca?a K, Pieróg M et al. TC-G 1008 facilitates epileptogenesis by acting selectively at the GPR39 receptor but non-selectively activates CREB in the hippocampus of pentylenetetrazole-kindled mice Cellular and Molecular Life Sciences 2023-05-01 [PMID: 37185787]

Doboszewska U, Soca?a K, Pieróg M et al. Dietary Zinc Differentially Regulates the Effects of the GPR39 Receptor Agonist, TC-G 1008, in the Maximal Electroshock Seizure Test and Pentylenetetrazole-Kindling Model of Epilepsy Cells 2023-01-09 [PMID: 36672199] (Block/Neutralize)

Shi M, Zhou J, Hu R et al. EA participates in pain transition through regulating KCC2 expression by BDNF-TrkB in the spinal cord dorsal horn of male rats Neurobiology of Pain 2023-01-01 [PMID: 36875547]

Doboszewska U, Socala K, PierOg M et al. The Effects and Mechanisms of Action of TC-G 1008, GPR39 Agonist, in Animal Models of Seizures and Epilepsy Cells 2022-07-09 [PMID: 35805072]

Chen YS, Zhang SM, Yue CX et al. Early environmental enrichment for autism spectrum disorder Fmr1 mice models has positive behavioral and molecular effects Experimental neurology 2022-03-05 [PMID: 35259351] (WB, Mouse)

Vakhitova YV, Kalinina TS, Zainullina LF et al. Analysis of Antidepressant-like Effects and Action Mechanisms of GSB-106, a Small Molecule, Affecting the TrkB Signaling International journal of molecular sciences 2021-12-13 [PMID: 34948177] (WB, Mouse)

Zainullina LF, Vakhitova YV, Lusta AY et al. Dimeric mimetic of BDNF loop 4 promotes survival of serum-deprived cell through TrkB-dependent apoptosis suppression Scientific reports 2021-04-08 [PMID: 33833366]

Ma Y, Deng M, Zhao XQ, Liu M Alternatively Polarized Macrophages Regulate the Growth and Differentiation of Ependymal Stem Cells through the SIRT2 Pathway Exp Neurobiol 2020-04-30 [PMID: 32408405] (WB, Mouse)

Ding H, Chen J, Su M et al. BDNF promotes activation of astrocytes and microglia contributing to neuroinflammation and mechanical allodynia in cyclophosphamide-induced cystitis J Neuroinflammation 2020-01-13 [PMID: 31931832] (ICC/IF, Rat)

Li W, Yu J, Liu Y et al. Elevation of Brain Magnesium Prevents and Reverses Cognitive Deficits and Synaptic Loss in Alzheimer's Disease Mouse Model. J Neurosci 2013-05-08 [PMID: 23658180] (ICC/IF, IF/IHC, Mouse)

Gotoh K, Masaki T, Chiba S et al. Brain-derived neurotrophic factor, corticotropin-releasing factor, and hypothalamic neuronal histamine interact to regulate feeding behavior J Neurochem 2013-02-23 [PMID: 23432085] (IHC-Fr, Rat)

Gotoh K, Masaki T, Chiba S et al. Hypothalamic BDNF regulates glucagon secretion mediated by pancreatic efferent nerve J Neuroendocrinol 2012-11-15 [PMID: 23157205] (IF/IHC, Rat)

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Products Related to NBP1-03499

NBL1-13836	TrkB Overexpression Lysate
NBP1-03499PEP	TrkB [p Tyr816] Antibody Blocking Peptide
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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