

Anti-TrkB phospho Ser478/479 Antibody

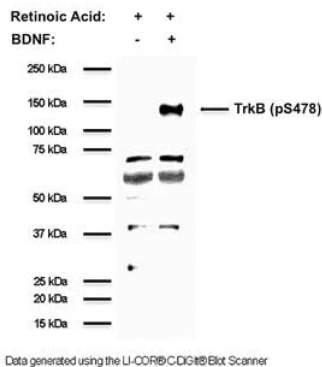


Product Details

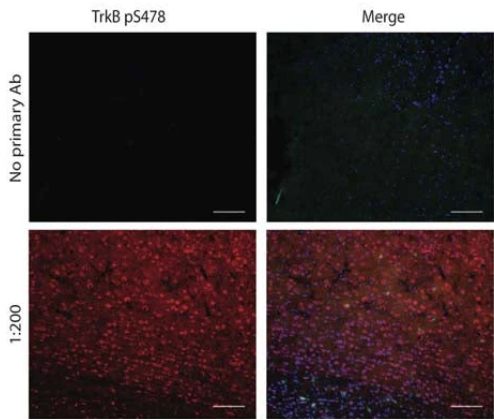
Available Variants	50 µg (SKU:R-1718-50)
Conjugate	Unconjugated
Isotype	IgG
Host Species	Rabbit
Format	Affinity-purified
Physical State	Lyophilized
Buffer	Lyophilized from 1X PBS, pH 7.2-7.6, with 0.1% trehalose
Production Notes	Affinity purified, and absorbed.
Applications	IHC, WB
Dilution Ranges	WB: 0.5-2 µg/mL IHC: 1-5 µg/mL
Species Reactivity	Chicken, Human, Mouse, Rat
Immunogen	Synthetic peptide immunogen, SNDDDSA[pS]PLHHIS
Specificity	Antibody is specific for TrkB serine phosphorylation at amino acid 478/479 (rodents/human). Lambda-phosphatase treatment obliterates positive staining. Human TrkB (pS478). Antibody has been shown to be specific for TrkB phosphorylated on serine 478 by phospho-peptide absorption dot blots, and on cell lysates from cell lines induced with retinoic acid and BDNF. Antibody detects a clear band in retinoic acid (RA) and BDNF-treated NSC34 cell lysates at ~120 kDa only, demonstrating that the phosphorylated TrkB receptor is being detected. Additional non-specific bands at lower molecular weight may be observed in lysates and homogenates with the antibody and these bands have not been characterized.
Molecular Weight	120 kDa

Storage	Spin vial briefly before opening. Reconstitute in 50 μ L sterile-filtered, ultrapure water. Centrifuge to remove any insoluble material. Final buffer contains no preservatives. Store lyophilized antibody at 2-8°C. After reconstitution divide into aliquots and store at -20°C for long-term storage. Store at 2-8°C short-term (up to 4 weeks) with an appropriate antibacterial agent. Avoid repetitive freeze/thaw cycles.
UniProt ID	Q16620
Country of Origin	United States
Shipping	25°C (ambient)
Expiration	12 months after date of receipt (unopened vial).
Usage Statement	For research use only.

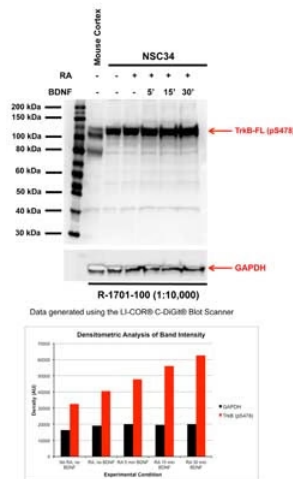
Product Images



Anti-TrkB phospho Ser478/479 Antibody



Immunohistochemical analysis of TrkB (pS478) expression in mouse cerebral cortex, including corpus callosum, using rabbit antibody R-1718-50. Mice were perfused (4% PFA), post-fixed followed by cryopreservation with 30% sucrose and frozen on isopentane. Saggittal cryostat sections were blocked with 10% NDS, 1% BSA in 1x TBS with 0.3% Triton-X100 (15 min, room temperature). Sections were incubated with primary antibody R-1718-50 (1:200, red) at 2-8°C overnight, with subsequent application of donkey anti-rabbit-Alexa594 secondary antibody (1:400, 2 hour incubation at room temperature). Sections were co-labelled with goat anti-PDGFRa (green) as positive control. Scale bar = 100 μ m. Images courtesy of Dr Jessica Fletcher, University of Melbourne, Australia.



Western blot analysis of TrkB (pS478) in mouse NSC34 RIPA cell lysates and mouse cortex homogenate (20 µg protein/lane). Cells were grown in proliferation medium in presence and absence of Retinoic Acid (RA, 1 µM) for 5 days. Cells were then serum-starved for 4 hours and treated with 50 ng/mL BDNF for 5-30 min. Control experiment: Mouse cortex RIPA homogenate. SDS-PAGE: 4-12%, reducing conditions; Transfer: Towbin's Tris-Glycine buffer, PVDF membrane (0.45 µm); Blocking: 5% skim milk in TBST, 1 hour at RT; Primary antibody: 1 µg/mL, overnight at 2-8°C; Secondary antibody: anti-rabbit-HRP (1/10,000) 2 hour at RT; Detection: Chemiluminescence.

R-1718-50 reveals a single band at ~120 kDa demonstrating detection of pTrkB (S478). RA and BDNF treatment increase band intensity. The membrane was then stripped and re-probed with rabbit antibody to GAPDH (R-1701-100, 1:10,000, following WB procedure as above) to assess well-to-well loading consistency. Densitometric band analysis for GAPDH and pTrkB (S478) shows equal loading amounts per well, confirming increase in TrkB (S478) phosphorylation upon treatment.

In mouse cortex, pTrkB (S478) is detected at ~120 kDa, with additional uncharacterized lower molecular weight bands.

Product Page URL: www.antibodiesinc.com/products/anti-trkb-phospho-ser478-479-antibody-r-1718-50



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