Datasheet for ABIN350028

anti-Pro BDNF antibody

3 Images

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Overview

Quantity:	500 µg
Target:	Pro BDNF (proBDNF)
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Pro BDNF antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Western Blotting (WB)

Product Details

Immunogen:	A synthetic peptide from mouse pro BDNF conjugated to blue carrier protein was used as the antigen.
Isotype:	IgG
Specificity:	Specific for proBDNF.
Cross-Reactivity:	Human, Mouse, Rat
Cross-Reactivity (Details):	Other species not yet tested.
Purification:	IgG

Target Details

Target:	Pro BDNF (proBDNF)
Abstract:	proBDNF Products

Target Details

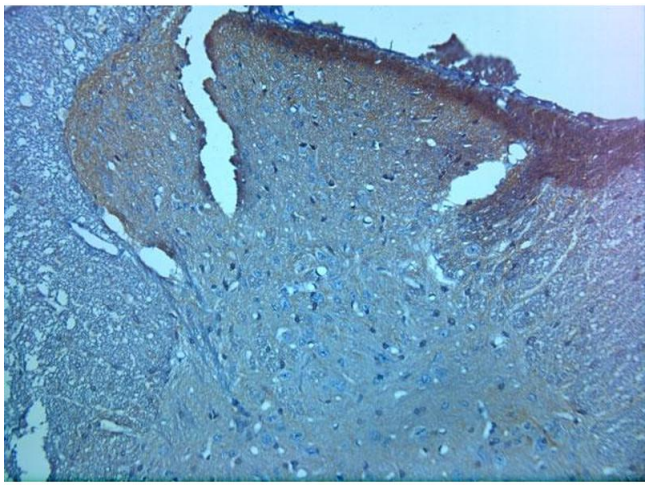
Background:	FUNCTION: Promotes the survival of neuronal populations that are all located either in the central nervous system or directly connected to it. Major regulator of synaptic transmission and plasticity at adult synapses in many regions of the CNS. The versatility of BDNF is emphasized by its contribution to a range of adaptive neuronal responses including long-term potentiation (LTP), long-term depression (LTD), certain forms of short-term synaptic plasticity, as well as homeostatic regulation of intrinsic neuronal excitability. SUBUNIT: Monomers and homodimers. Binds to NTRK2/TRKB. SUBCELLULAR LOCATION: Secreted.,BDNF,Brain-derived neurotrophic factor precursor, proBDNF, pro BDNF
UniProt:	P21237

Application Details

Application Notes:	IHC, WB. A concentration 10-50 µg,ml is recommended. The optimal concentration should be determined by the end user.
Restrictions:	For Research Use only

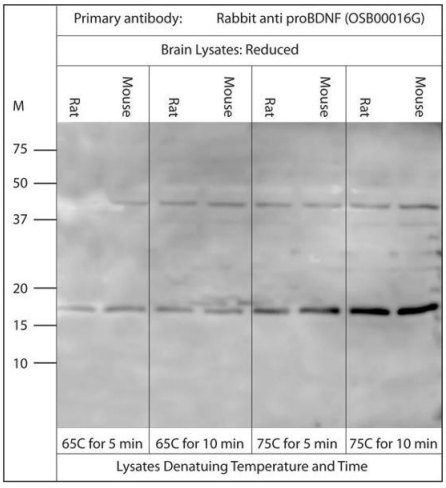
Handling

Format:	Lyophilized
Reconstitution:	Reconstitute in 500 µL of sterile water. Centrifuge to remove any insoluble material.
Handling Advice:	Avoid freeze and thaw cycles.
Storage:	4 °C/-20 °C
Storage Comment:	Maintain the lyophilised/reconstituted antibodies frozen at -20°C for long term storage and refrigerated at 2-8°C for a shorter term. When reconstituting, glycerol (1:1) may be added for an additional stability. Avoid freeze and thaw cycles.
Expiry Date:	12 months



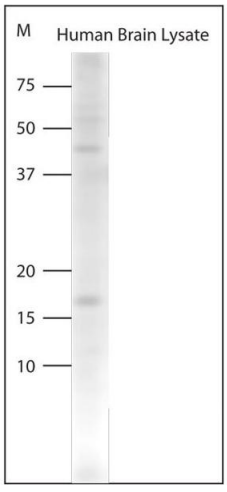
Immunohistochemistry

Image 1. IHC on paraffin sections of rat spinal cord tissue using Rabbit antibody to pro BDNF (50-90): .HIER: 1 mM EDTA, pH 8 for 20 min using Thermo PT Module.Blocking: 0.2% LFDM in TBST filtered thru 0.2 µm.Detection was done using Novolink HRP polymer from Leica following manufacturer's instructions.Primary antibody: dilution 1: 100, incubated 30 min at RT (using Autostainer)Sections were counterstained with Harris Hematoxylin.Dorsal horn is intensely stained.



Western Blotting

Image 2. Western blot on brain lysates using Rabbit antibody to pro BDNF (50-90): . Blocking: 0.5% LFDM in 1x PBS containing 0.01% Tween-20 for 30 min at RT with shakeAntibody dilution and incubation: 10 µg/ml for 30 min at RT with shakeWashing buffer: 1x PBS, 0.1% Tween-20Secondary antibody HRP-Goat anti rabbit from Licore, 1: 12000 dilution incubated 30 min at RT with shakeFinal wash before addition of ECL substrate: 0.1X PBS (NO Tween-20!), 4 washes in 70 ml, 5 min each



Western Blotting

Image 3. Western blot on human brain lysate using Rabbit antibody to pro BDNF (50-90): . Blocking: 0.5% LFDM in 1x PBS containing 0.01% Tween-20 for 30 min at RT with shakeAntibody dilution and incubation: 10 µg/ml for 30 min at RT with shakeWashing buffer: 1x PBS, 0.1% Tween-20Secondary antibody HRP-Goat anti rabbit from Licore, 1: 12000 dilution incubated 30 min at RT with shakeFinal wash before addition of ECL substrate: 0.1X PBS (NO Tween-20!), 4 washes in 70 ml, 5 min each