

Datasheet for ABIN2869078

anti-BDNF antibody (N-Term) (Atto 488)[Go to Product page](#)**3** Images

Overview

Quantity:	100 µg
Target:	BDNF
Binding Specificity:	N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This BDNF antibody is conjugated to Atto 488
Application:	Western Blotting (WB), Immunocytochemistry (ICC), Immunofluorescence (IF)

Product Details

Immunogen:	Synthetic peptide from the N-terminal of human BDNF
Specificity:	Predicted molecular weight at ~27.9 kDa.
Cross-Reactivity:	Human, Mouse
Purification:	Peptide Affinity Purified

Target Details

Target:	BDNF
Alternative Name:	BDNF (BDNF Products)
Background:	Brain-derived neurotrophic factor, also known as BDNF, is a protein that, in humans, is encoded by the BDNF gene. BDNF is a member of the neurotrophin family of growth factors, which are

Target Details

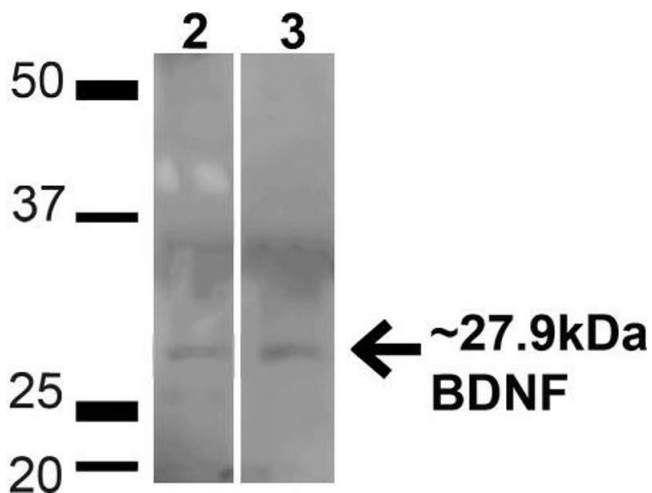
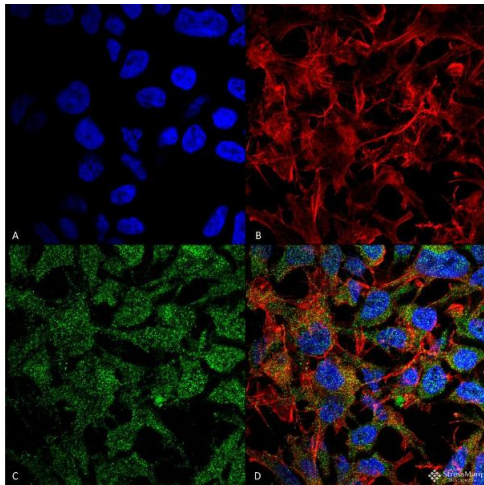
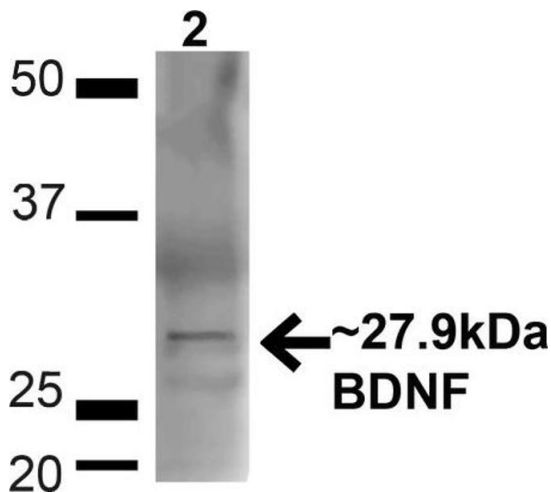
	related to the canonical Nerve Growth Factor. Neurotrophic factors are found in the brain and the periphery. The effects of BDNF on motor neurons might be useful in treating patients with motor neuropathies and ALS (1-3).
Gene ID:	627
NCBI Accession:	NP_001137277
UniProt:	P23560
Pathways:	RTK Signaling , Synaptic Membrane , Feeding Behaviour , Dicarboxylic Acid Transport , Regulation of long-term Neuronal Synaptic Plasticity

Application Details

Application Notes:	• WB (1:1000) • ICC/IF (1:100) • optimal dilutions for assays should be determined by the user.
Comment:	A 1:1000 dilution of ABIN2869078 was sufficient for detection of BDNF on 293T Rapamycin-treated lysates using Goat anti-rabbit IgG:HRP as the secondary antibody.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated
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
Storage Comment:	Conjugated antibodies should be stored at 4°C



Western Blotting

Image 1. Western blot analysis of Mouse Brain showing detection of ~27.9 Kda BDNF protein using Rabbit Anti-BDNF Polyclonal Antibody (ABIN2869078). Lane 1: MW Ladder. Lane 2: Mouse Brain (20 µg). Load: 20 µg. Block: 5 % milk + TBST for 1 hour at RT. Primary Antibody: Rabbit Anti-BDNF Polyclonal Antibody (ABIN2869078) at 1:1000 for 1 hour at RT. Secondary Antibody: Goat Anti-Rabbit: HRP at 1:2000 for 1 hour at RT. Color Development: TMB solution for 12 min at RT. Predicted/Observed Size: ~27.9 Kda.

Immunofluorescence (fixed cells)

Image 2. Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-BDNF Polyclonal Antibody . Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Rabbit Anti-BDNF Polyclonal Antibody at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Rabbit ATTO 488 at 1:100 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60min RT, 5min RT. Localization: Secreted, Cytoplasm, Membrane-bound vesicle. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) BDNF Antibody (D) Composite.

Western Blotting

Image 3. Western blot analysis of Human HeLa and HEK293T cell lysates showing detection of ~27.9 Kda BDNF protein using Rabbit Anti-BDNF Polyclonal Antibody (ABIN2869078). Lane 1: MW Ladder. Lane 2: Human HeLa (20 µg). Lane 3: Human 293T (20 µg). Load: 20 µg. Block: 5 % milk + TBST for 1 hour at RT. Primary Antibody: Rabbit Anti-BDNF Polyclonal Antibody (ABIN2869078) at 1:1000 for 1 hour at RT. Secondary Antibody: Goat Anti-Rabbit: HRP at 1:2000 for 1 hour at RT. Color Development: TMB solution

for 12 min at RT. Predicted/Observed Size: ~27.9 Kda.