

## Anti-GDNF Antibody Picoband™

Catalog Number: PB9069

### About GDNF

Glial cell line-derived neurotrophic factor (GDNF) is a glycosylated, disulfide-bonded homodimer that is a distantly related member of the transforming growth factor-beta superfamily. GDNF is also a potent neurotrophic factor that promotes the survival of dopaminergic neurons in cultures including embryonic neuronal cultures. In addition to its potential role in the differentiation and survival of central nervous system neurons, it has profound effects on kidney organogenesis and the development of the peripheral nervous system. GDNF may have utility in the treatment of Parkinson's disease, which is marked by progressive degeneration of midbrain dopaminergic neurons.

### Overview

Product Name	Anti-GDNF Antibody Picoband™
Reactive Species	Human, Rat
Description	Boster Bio Anti-GDNF Antibody Picoband™ catalog # PB9069. Tested in WB applications. This antibody reacts with Human, Rat.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P39905

### Technical Details

Immunogen	E.coli-derived human GDNF recombinant protein (Position: S78-I211). Human GDNF shares 93% amino acid (aa) sequence identity with both mouse and rat GDNF.
Predicted Reactive Species	Bovine, Canine, Monkey, Rabbit
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.

Purification	Immunogen affinity purified.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.1-0.5ug/ml, Rat, Human</p>

## Anti-GDNF Antibody Picoband™ (PB9069) Images



Figure 1. Western blot analysis of GDNF using anti-GDNF antibody (PB9069).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: rat brain tissue lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-GDNF antigen affinity purified polyclonal antibody (Catalog # PB9069) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for GDNF at approximately 24 kDa. The expected band size for GDNF is at 24 kDa.

## 4 Publications Citing This Product

1. PubMed ID: 24503145, Zhang X, Shi K, Li Y, Zhang H, Hao J. Reprod Toxicol. 2014 Jun;45:87-93. Doi: 10.1016/J.Reprotox.2014.01.009. Epub 2014 Feb 4. Lipopolysaccharide Inhibits The Self-Renewal Of Spermatogonial Stem Cells In Vitro Via Downregulation Of Gdnf Expression...
2. PubMed ID: 21738758, Li R, Xia W, Zhang Z, Wu K. Plos One. 2011;6(6):E21663. Doi: 10.1371/Journal.Pone.0021663. Epub 2011 Jun 27. S100B Protein, Brain-Derived Neurotrophic Factor, And Glial Cell Line-Derived Neurotrophic Factor In Human Milk.
3. PubMed ID: 29925387, Surface functionalization of TiO2 nanotubes with minocycline and its in vitro biological effects on Schwann cells

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