

## Anti-GDNF Antibody Picoband® FITC Conjugated

Catalog Number: PB9069-FITC

### 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 neurones 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® FITC Conjugated
Reactive Species	Human, Rat
Application	Recommended applications are based on the parent unconjugated antibody (WB). Customers may select suitable applications according to their experimental needs.
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
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.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	FITC Excitation Wavelength: 495 nm Emission Wavelength: 525 nm
Suggested Dilutions	Optimal dilutions should be determined by end users.

## 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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