



# **GDNF Antibody**

Rabbit Polyclonal Antibody Catalog # ABV10867

# **Specification**

#### **GDNF Antibody - Product Information**

Application
Primary Accession
Other Accession
Reactivity
Host
Clonality
Isotype
Calculated MW

WB, IHC, IP
P48540
BAA08660
Human
Rabbit
Polyclonal
Rabbit IgG
23662

#### **GDNF Antibody - Additional Information**

#### **Gene ID 14573**

Positive Control Recombinant

human GDNF
Application & Usage Western blotting

(0.5-4 μg/ml).
Based on
researcher's
feedback, the
antibody also
works in immuno
precipitation
(10-20 μg/ml),
and Immunohisto
chemistry (10-20
μg/ml). However,
the optimal
concentrations
should be
determined

individually. The antibody

recognizes GDNF of human, mouse, and rat origins. Jurkat cell lysate can be used as a

positive control.

### **Other Names**

neurotrophic factor GDNF, GDNF, Glial cell line-derived neurotrophic factor, Astrocyte-derived trophic factor; ATF

# **Target/Specificity**

# **GDNF Antibody - Background**

Glial cell line-derived neurotrophic factor (GDNF) has been identified as a potent neurotrophic factor that enhances survival of midbrain dopaminergic neurons. GDNF is a glycosylated, disulfide-bonded homodimer. It promotes the survival and morphological differentiation of dopaminergic neurons and increases their high-affinity dopamine uptake. On the basis of these findings, it has been s µggested that GDNF may play a role in the treatment of Parkinson's disease, which is marked by progressive degeneration of midbrain dopaminergic neurons.



#### **GDNF**

# Antibody Form Liquid

# **Appearance**

Colorless liquid

#### **Formulation**

 $100 \mu g$  (0.5 mg/ml) affinity purified rabbit anti- GDNF polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 5 mM EDTA and 0.01% thimerosal.

## **Handling**

The antibody solution should be gently mixed before use.

# Reconstitution & Storage -20 °C

# **Background Descriptions**

#### **Precautions**

GDNF Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

# **GDNF Antibody - Protein Information**

# Name Gdnf

#### **Function**

Neurotrophic factor that enhances survival and morphological differentiation of dopaminergic neurons and increases their high- affinity dopamine uptake.

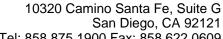
### **Cellular Location**

Secreted

{ECO:0000250|UniProtKB:P39905}.

#### **Tissue Location**

Expressed in both the central nervous system (CNS) and in non-CNS tissues. Expressed in a highly dynamic pattern in the anterior neuroectoderm during the early stages of neurogenesis between 7.5 dpc and 10.5 dpc. Beginning at 10.5 dpc, expression begins in mesenchymal tissues of several organs including the digestive tract, kidney, testis, frontonasal mass, tooth primordium, tongue, mandible, whisker follicles, ear, eye, limb bud and in distinct



Tel: 858.875.1900 Fax: 858.622.0609



regions of the brain. Also expressed in the heart, ileum, liver and muscle

# **GDNF Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- <u>Immunofluorescence</u>
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture