

**GDNF Antibody**  
**Rabbit Polyclonal Antibody**  
**Catalog # ABV10827****Specification**

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**GDNF Antibody - Product Information**

Application	WB, IHC, IP
Primary Accession	<a href="#">P48540</a>
Other Accession	<a href="#">BAA08660</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	23662

**GDNF Antibody - Additional Information****Gene ID** 14573

Application & Usage	<b>Western blotting (0.5-4 µg/ml). Based on researcher's feedback, the antibody also works in immunoprecipitation (10-20 µg/ml), and Immunohistochemistry (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.</b>
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**Other Names**

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

**Target/Specificity**

GDNF

**Antibody Form**

Liquid

**Appearance**

Colorless liquid

**Formulation**

100 µg (0.2 mg/ml) protein A affinity purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 30% glycerol, 0.5% BSA, and 0.01% thimerosal.

**Handling**

The antibody solution should be gently mixed before use.

**Reconstitution & Storage**

-20 °C

## Background Descriptions

### Precautions

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

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

## GNDF Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## GNDF Antibody - Images

## GNDF Antibody - Background

Glial cell line-derived neurotrophic factor (GNDF) has been identified as a potent neurotrophic factor that enhances survival of midbrain dopaminergic neurons. GNDF 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 suggested that GNDF may play a role in the treatment of Parkinson's disease, which is marked by progressive degeneration of midbrain dopaminergic neurons.