

**GDNF Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP8680a****Specification****GDNF Antibody (N-term) Blocking Peptide -  
Product Information**Primary Accession [P39905](#)**GDNF Antibody (N-term) Blocking Peptide -  
Additional Information****Gene ID** 2668**Other Names**Glial cell line-derived neurotrophic factor,  
hGDNF, Astrocyte-derived trophic factor,  
ATF, GDNF**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP8680a](/products/AP8680a) was selected from the N-term region of human GDNF. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**GDNF Antibody (N-term) Blocking Peptide -  
Protein Information****Name** GDNF**GDNF Antibody (N-term) Blocking Peptide  
- Background**

GDNF is a highly conserved neurotrophic factor. The recombinant form of this protein was shown to promote the survival and differentiation of dopaminergic neurons in culture, and was able to prevent apoptosis of motor neurons induced by axotomy. This protein is processed to a mature secreted form that exists as a homodimer. The mature form of the protein is a ligand for the product of the RET (rearranged during transfection) protooncogene. In addition to the transcript encoding GDNF, two additional alternative transcripts encoding distinct proteins, referred to as astrocyte-derived trophic factors, have also been described.

**GDNF Antibody (N-term) Blocking Peptide  
- References**

Tomac, A., et al., Nature 373 (6512), 335-339 (1995)

**Function**

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

**Cellular Location**

Secreted

**Tissue Location**

In the brain, predominantly expressed in the striatum with highest levels in the caudate and lowest in the putamen. Isoform 2 is absent from most tissues except for low levels in intestine and kidney. Highest expression of isoform 3 is found in pancreatic islets. Isoform 5 is expressed at very low levels in putamen, nucleus accumbens, prefrontal cortex, amygdala, hypothalamus and intestine. Isoform 3 is up-regulated in the middle temporal gyrus of Alzheimer disease patients while isoform 2 shows no change.

**GDNF Antibody (N-term) Blocking Peptide  
- Protocols**

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

- [Blocking Peptides](#)