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GDNF Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP8680A

Specification

GDNF Antibody (N-term) - Product Information

Application	IHC-P, FC,E
Primary Accession	P39905
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Antigen Region	8-36

GDNF Antibody (N-term) - Additional Information

Gene ID 2668

Other Names
Glial cell line-derived neurotrophic factor, hGDNF, Astrocyte-derived trophic factor, ATF, GDNF

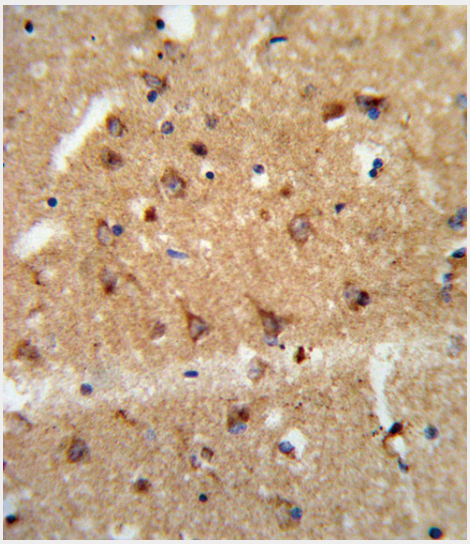
Target/Specificity
This GDNF antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 8-36 amino acids from the N-terminal region of human GDNF.

Dilution
IHC-P~~1:10~50
FC~~1:10~50

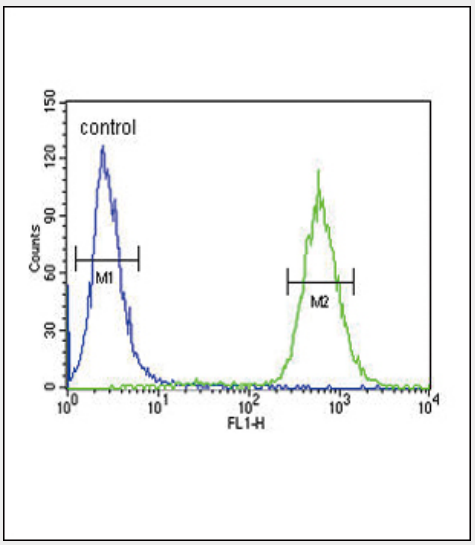
Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
GDNF Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.



Formalin-fixed and paraffin-embedded human brain tissue reacted with GDNF Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



GDNF Antibody (N-term) (Cat. #AP8680a) flow cytometric analysis of 293 cells (right histogram) compared to a negative control

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GDNF Antibody (N-term) - 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

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) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

GDNF Antibody (N-term) - 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) - References

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