

Product datasheet

Anti-GDNF antibody ab18956

★★★★★ 10 Abreviews 56 References

Overview

Product name	Anti-GDNF antibody
Description	Rabbit polyclonal to GDNF
Host species	Rabbit
Specificity	GDNF homodimerizes and has 5 isoforms along with a signal and propeptide, so there is a potential for multiple bands in western blot.
Tested applications	Suitable for: IHC-P, IHC-Fr, IP, WB
Species reactivity	Reacts with: Mouse, Human
Immunogen	Synthetic peptide surrounding amino acid 195 of mouse GDNF.(Peptide available as ab51926 .)
General notes	<p>This product is manufactured by BioVision, an Abcam company and was previously called 5098 GDNF Antibody. 5098-100 is the same size as the 100 µg size of ab18956.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
Storage buffer	Preservative: 0.03% Proclin 300 Constituents: PBS, 30% Glycerol (glycerin, glycerine), 0.5% BSA, 0.015% EDTA
Purity	Protein A purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab18956 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P	★★★★★ (5)	Use at an assay dependent concentration.
IHC-Fr	★★★★★ (1)	Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.
WB	★★★★★ (1)	Use at an assay dependent concentration. Predicted molecular weight: 24 kDa. Western blot may give multiple bands. GDNF homodimerizes and has 5 isoforms along with a signal and propeptide.

Target

Function

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

Tissue specificity

In the brain, predominantly expressed in the striatum with highest levels in the caudate and lowest in the putamen.

Involvement in disease

Defects in GDNF may be a cause of Hirschsprung disease (HSCR) [MIM:142623]. In association with mutations of RET gene, defects in GDNF may be involved in Hirschsprung disease. This genetic disorder of neural crest development is characterized by the absence of intramural ganglion cells in the hindgut, often resulting in intestinal obstruction.

Defects in GDNF are a cause of congenital central hypoventilation syndrome (CCHS) [MIM:209880]; also known as congenital failure of autonomic control or Ondine curse. CCHS is a rare disorder characterized by abnormal control of respiration in the absence of neuromuscular or lung disease, or an identifiable brain stem lesion. A deficiency in autonomic control of respiration results in inadequate or negligible ventilatory and arousal responses to hypercapnia and hypoxemia.

Sequence similarities

Belongs to the TGF-beta family. GDNF subfamily.

Cellular localization

Secreted.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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