# Product datasheet

## Anti-GDNF antibody ab119473

### Overview

<table>
<thead>
<tr>
<th>Product name</th>
<th>Anti-GDNF antibody</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Rabbit polyclonal to GDNF</td>
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<tr>
<td>Host species</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Tested applications</td>
<td>Suitable for: WB, IHC-P</td>
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<tr>
<td>Species reactivity</td>
<td>Reacts with: Rat, Human</td>
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<tr>
<td></td>
<td>Predicted to work with: Mouse</td>
</tr>
<tr>
<td>Immunogen</td>
<td>Synthetic peptide corresponding to an internal sequence of Human GDNF.</td>
</tr>
<tr>
<td>Positive control</td>
<td>Rat brain and human lung tissue; Recombinant Human GDNF protein.</td>
</tr>
<tr>
<td>General notes</td>
<td>Reproducibility is key to advancing scientific discovery and accelerating scientists’ next breakthrough. Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility. We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications &amp; species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee. In preparation for this, we have started to update the applications &amp; species that this product is Abpromise guaranteed for. We are also updating the applications &amp; species that this product has been &quot;predicted to work with,” however this information is not covered by our Abpromise guarantee. Applications &amp; species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee. Please check that this product meets your needs before purchasing. 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, as well as customer reviews and Q&amp;As.</td>
</tr>
</tbody>
</table>

### Properties

<table>
<thead>
<tr>
<th>Form</th>
<th>Liquid</th>
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Storage instructions

Storage buffer
Preservatives: 0.025% Thimerosal (merthiolate), 0.025% Sodium azide
Constituents: 2.5% BSA, 0.45% Sodium chloride, 0.1% Dibasic monohydrogen sodium phosphate

Purity
Immunogen affinity purified

Clonality
Polyclonal

Isotype
IgG

Applications
Our Abpromise guarantee covers the use of ab119473 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>WB</td>
<td></td>
<td>Use a concentration of 0.1 - 0.5 µg/ml. Predicted molecular weight: 24 kDa. The detection limit for GDNF is approximately 2.5ng/lane under non-reducing and reducing conditions. GDNF homodimerizes and has 5 isoforms along with a signal and propeptide, so there is a potential for multiple bands in western blot.</td>
</tr>
<tr>
<td>IHC-P</td>
<td></td>
<td>Use a concentration of 0.5 - 1 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.</td>
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</tbody>
</table>

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.

Images
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GDNF antibody (ab119473)

ab119473 at 1µg/ml staining GDNF in by Paraffin-embedded Human lung tissue by Immunohistochemistry.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GDNF antibody (ab119473)

ab119473 at 1µg/ml staining GDNF in by Paraffin-embedded Rat brain tissue by Immunohistochemistry.

Western blot - Anti-GDNF antibody (ab119473)

All lanes: Anti-GDNF antibody (ab119473) at 1 µg/ml

Lane 1: Recombinant Human GDNF protein at 0.01 µg
Lane 2: Recombinant Human GDNF protein at 0.005 µg
Lane 3: Recombinant Human GDNF protein at 0.0025 µg

Predicted band size: 24 kDa

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

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