

Anti-GDNF Antibody

Catalog Number: PA1465

About GDNF

GDNF, Glial cell-derived neurotrophic factor, is a protein that, in humans, is encoded by the GDNF gene. GDNF is a small protein that potently promotes the survival of many types of neurons. GDNF is a founding member of the GDNF family of ligands (GFL). The GDNF gene is mapped to human chromosome 5p13.1-p12 by fluorescence in situ hybridization (FISH). This gene encodes 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. The encoded 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.

Overview

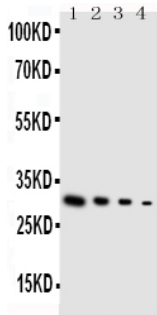
Product Name	Anti-GDNF Antibody
Reactive Species	Human, Rat
Description	Boster Bio Anti-GDNF Antibody catalog # PA1465. Tested in IHC, WB applications. This antibody reacts with Human, Rat.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P39905

Technical Details

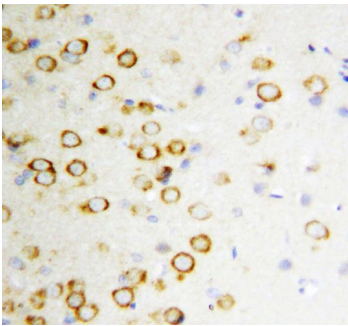
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human GDNF , different from the related mouse sequence by three amino acids and rat sequence by two amino acids.
Predicted Reactive Species	Chicken
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized

Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.1-0.5ug/ml, Human</p> <p>Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, Rat, By Heat</p>

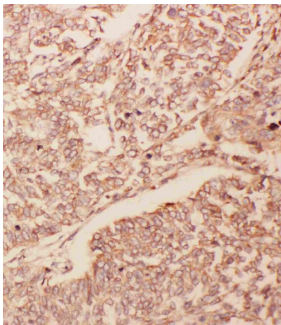
Anti-GDNF Antibody (PA1465) Images



Anti-GDNF antibody, PA1465, Western blotting
Lane 1: Recombinant Human GDNF Protein 10ng
Lane 2: Recombinant Human GDNF Protein 5ng
Lane 3: Recombinant Human GDNF Protein 2.5ng
Lane 4: Recombinant Human GDNF Protein 1.25ng



Anti-GDNF antibody, PA1465, IHC(P)
IHC(P): Rat Brain Tissue



Anti-GDNF antibody, PA1465, IHC(P)
IHC(P): Human Lung Cancer Tissue

7 Publications Citing This Product

1. PubMed ID: 10.1186/s12871-018-0491-y, The interplay of BDNF-TrkB with NMDA receptor in propofol-induced cognition dysfunction
2. PubMed ID: 10.3969/j.issn.1673-5374.2013.23.009, Antenatal taurine reduces cerebral cell apoptosis in fetal rats with intrauterine growth restriction
3. PubMed ID: 10.1111/and.14056, Culture bovine prospermatogonia with 2i medium

Visit bosterbio.com/anti-gdnf-antibody-pa1465-boster.html to see all 7 publications.

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