BDNF Polyclonal ANTIBODY

Catalog Number: 25699-1-AP

Basic Information

Catalog Number: 25699-1-AP
Size: 44 μg/150 μl
Source: Rabbit
Isotype: IgG
Purification Method: Antigen affinity purification
Immunogen Catalog Number: AG22489

GenBank Accession Number: BC039795
GeneID (NCBI): 627
Full Name: brain-derived neurotrophic factor
Calculated MW: 247aa, 28 kDa
Observed MW: 28 kDa

Recommended Dilutions:
WB: 1:200-1:1000

Applications

Tested Applications:
WB, ELISA
Cited Applications:
IF, IHC, WB
Species Specificity:
human, rat
Cited Species:
cynomologous macaques, human, mouse, rat

Background Information

BDNF is a member of the family of neurotrophic factors. It was first explored and purified from pig brain in 1982, and other members of the neurotrophin family were successively discovered. BDNF is induced by cortical neurons, and is necessary for survival of striatal neurons in the brain. Expression of BDNF is reduced in both Alzheimer's and Huntington disease patients. It participates in axonal growth, pathfinding and in the modulation of dendritic growth and morphology. It also plays a role in the regulation of stress response and in the biology of mood disorders. The BDNF gene is rather complex in its structure and it can express four different mRNA isoforms by alternative splicing, producing 28-37 kDa proteins.

Notable Publications

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<tr>
<th>Author</th>
<th>PubMed ID</th>
<th>Journal</th>
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<tbody>
<tr>
<td>John H Brock</td>
<td>26414795</td>
<td>J Neurotrauma</td>
<td>IHC</td>
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<tr>
<td>Wu Wenbo</td>
<td>28852006</td>
<td>Neurochem Res</td>
<td>WB, IHC</td>
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<tr>
<td>Chenxia Sheng</td>
<td>29057254</td>
<td>Biomed Res Int</td>
<td>WB, IHC</td>
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Storage

Storage:
Store at -20 ºC. Stable for one year after shipment.

Storage Buffer:
PBS with 0.1% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20 ºC storage.

For Research Use Only

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fetal human brain tissue were subjected to SDS-PAGE followed by western blot with 25699-1-AP (BDNF Antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours. WB result of BDNF antibody (25699-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-BDNF transfected U-251 cells.