

## Rabbit anti-Human, Mouse BDNF Polyclonal Antibody | anti-BDNF antibody

Rabbit Anti-Human BDNF Polyclonal

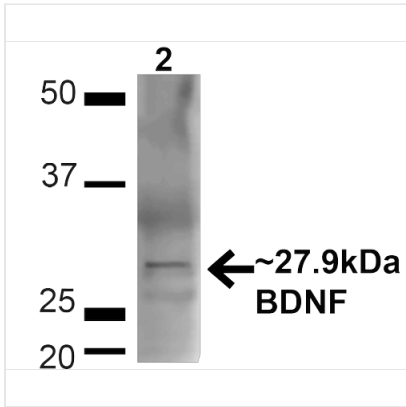
|                               |                       |                                   |                                     |
|-------------------------------|-----------------------|-----------------------------------|-------------------------------------|
| CATALOG #<br><b>AAA103842</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human, Mouse</b> | APPLICATIONS<br><b>Western Blot</b> |
|-------------------------------|-----------------------|-----------------------------------|-------------------------------------|

### PRODUCT SYNONYMS

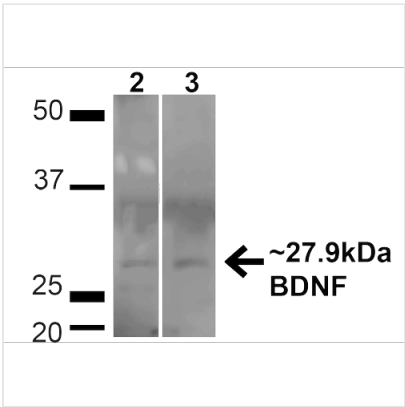
BDNF; Polyclonal Antibody; Rabbit Anti-Human BDNF Polyclonal; Abrineurin Antibody; ANON2 Antibody; BDNF\_Human Antibody; Brain Dervied Neurotrophic Factor Antibody; MGC34632 Antibody; BDNF Antibody: RPE ; BDNF Antibody; anti-BDNF antibody

### PRODUCT SPECIFICATIONS

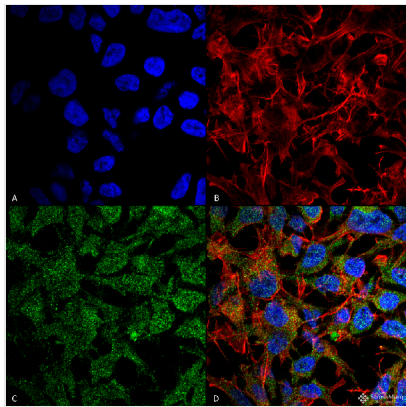
|                                                |                                                                                                                                                    |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                             |
| Reactivity                                     | Human, Mouse                                                                                                                                       |
| Clonality                                      | Polyclonal                                                                                                                                         |
| Purity/Purification                            | Peptide Affinity Purified                                                                                                                          |
| Concentration                                  | 1 mg/ml (varies by lot)                                                                                                                            |
| Sequence Length                                | 247                                                                                                                                                |
| Applicable Applications for anti-BDNF antibody | WB (Western Blot)                                                                                                                                  |
| Immunogen                                      | Synthetic peptide from the N-terminal of human BDNF                                                                                                |
| Immunogen Species                              | Human                                                                                                                                              |
| COA                                            | A 1:1000 dilution was sufficient for detection of BDNF on 293T Rapamycin-treated lysates using Goat anti-rabbit IgG:HRP as the secondary antibody. |
| Storage Buffer                                 | PBS, 50% glycerol, 0.09% sodium azide                                                                                                              |
| Conjugate                                      | RPE                                                                                                                                                |
| Cellular Localization                          | Secreted                                                                                                                                           |
| Preparation and Storage                        | Store at -20 degree C                                                                                                                              |



**WB (Western Blot)**  
Western blot analysis of Mouse Brain showing detection of ~27.9 Kda BDNF protein using Rabbit Anti-BDNF Polyclonal Antibody (SPC-703). Lane 1: MW Ladder. Lane 2: Mouse Brain (20 ug). Load: 20 ug. Block: 5% milk + TBST for 1 hour at RT. Primary Antibody: Rabbit Anti-BDNF Polyclonal Antibody (SPC-703) at 1:1000 for 1 hour at RT. Secondary Antibody: Goat Anti-Rabbit: HRP at 1:2000 for 1 hour at RT. Color Development: TMB solution for 12 min at RT. Predicted/Observed Size: ~27.9 Kda.



**WB (Western Blot)**  
Western blot analysis of Human HeLa and HEK293T cell lysates showing detection of ~27.9 Kda BDNF protein using Rabbit Anti-BDNF Polyclonal Antibody (SPC-703). Lane 1: MW Ladder. Lane 2: Human HeLa (20 ug). Lane 3: Human 293T (20 ug). Load: 20 ug. Block: 5% milk + TBST for 1 hour at RT. Primary Antibody: Rabbit Anti-BDNF Polyclonal Antibody (SPC-703) at 1:1000 for 1 hour at RT. Secondary Antibody: Goat Anti-Rabbit: HRP at 1:2000 for 1 hour at RT. Color Development: TMB solution for 12 min at RT. Predicted/Observed Size: ~27.9 Kda.



**ICC (Immunocytochemistry)**  
Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-BDNF Polyclonal Antibody (SPC-703). Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Rabbit Anti-BDNF Polyclonal Antibody (SPC-703) at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Rabbit ATTO 488 at 1:100 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60min RT, 5min RT. Localization: Secreted, Cytoplasm, Membrane-bound vesicle. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) BDNF Antibody (D) Composite.

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-BDNF antibody | Brain-derived neurotrophic factor, also known as BDNF, is a protein that, in humans, is encoded by the BDNF gene. BDNF is a member of the neurotrophin family of growth factors, which are related to the canonical Nerve Growth Factor. Neurotrophic factors are found in the brain and the periphery. The effects of BDNF on motor neurons might be useful in treating patients with motor neuropathies and ALS (1-3). |
| Product Categories/Family for anti-BDNF antibody   | Neuroscience; Neurodegeneration; Alzheimer's Disease; Cardiovascular System; Atherosclerosis; ALS Disease                                                                                                                                                                                                                                                                                                                |
| References                                         | 1. Wetmore C., Ernfors P., Persson H., Olson L. (1990) Exp. Neurol. 109(2): 141-152. 2. Thoenen H., Zafra F., Hengerer B., Lindholm D. (1991) Ann NY Acad Sci. 640: 86-90. 3. Chun H.S., Son J.J., Son J.H. (2000) Neuroreport. 11(3): 511-514.                                                                                                                                                                          |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                |
|----------------------------------|--------------------------------------------------------------------------------|
| NCBI GI #                        | 219842288                                                                      |
| NCBI GeneID                      | 627                                                                            |
| NCBI Accession #                 | NP_001137277.1                                                                 |
| NCBI GenBank Nucleotide #        | NM_001143805.1                                                                 |
| UniProt Accession #              | P23560; Q598Q1; Q6DN19; Q6YNR2; Q6YNR3; Q9BYY7; Q9UC24; A7LA85; A7LA92; D3DQZ2 |
| Molecular Weight                 | Predicted molecular weight at ~27.9kDa.                                        |
| NCBI Official Full Name          | brain-derived neurotrophic factor isoform a preproprotein                      |
| NCBI Official Synonym Full Names | brain-derived neurotrophic factor                                              |
| NCBI Official Symbol             | BDNF                                                                           |
| NCBI Official Synonym Symbols    | ANON2; BULN2                                                                   |
| NCBI Protein Information         | brain-derived neurotrophic factor                                              |
| UniProt Protein Name             | Brain-derived neurotrophic factor                                              |
| UniProt Gene Name                | <b>BDNF</b>                                                                    |
| UniProt Synonym Gene Names       | BDNF                                                                           |
| UniProt Entry Name               | BDNF_HUMAN                                                                     |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/bdnf-antibody-western-blot-elisa/103842>