

# BDNF Antibody (CT)

**ALTERNATE NAMES:** BDNF; Brain-derived neurotrophic factor; Abrineurin

**CATALOG #:** 6725-100

**AMOUNT:** 100 µl

**HOST/ISOTYPE:** Rabbit IgG

**IMMUNOGEN:** This BDNF antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 206-236 amino acids from the C-terminal region of human BDNF.

**PURIFICATION:** This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**MOLECULAR WEIGHT:** ~27.8 kDa

**FORM:** Liquid

**FORMULATION:** Supplied in PBS with 0.09% (W/V) sodium azide.

**SPECIES REACTIVITY:** Human. Predicted reactivity with mouse, pig, rat and bovine samples.

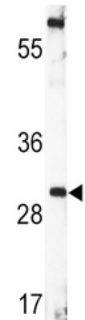
**STORAGE CONDITIONS:** Maintain refrigerated at 2-8°C for up to 6 months. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

**DESCRIPTION:** Neurotrophins function to regulate naturally occurring cell death of neurons during development. The prototype neurotrophin is nerve growth factor (NGF), originally discovered in the 1950s as a soluble peptide promoting the survival of, and neurite outgrowth from, sympathetic ganglia. Three additional structurally homologous neurotrophic factors have been identified. These include brain-derived neurotrophic factor (BDNF), neurotrophin-3 (NT-3) and neurotrophin-4 (NT-4) (also designated NT-5). These various neurotrophins stimulate the in vitro survival of distinct, but partially overlapping, populations of neurons. The cell surface receptors through which neurotrophins mediate their activity have been identified. For instance, the Trk A receptor is the preferential receptor for NGF, but also binds NT-3 and NT-4. The Trk B receptor binds both BDNF and NT-4 equally well, and binds NT-3 to a lesser extent, while the Trk C receptor only binds NT-3.

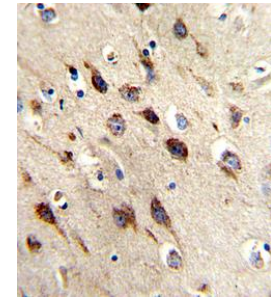
**APPLICATION:** Western blot: ~1:1000, IHC: ~1:10–1:50, IF: ~1:10–1:50, FC: ~1:10–1:50.

**Note:** This information is only intended as a guide. The optimal dilutions must be determined by the user.

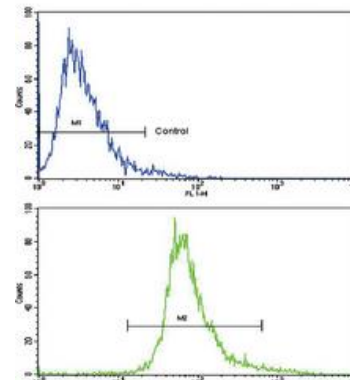
**FOR RESEARCH USE ONLY! Not to be used on humans.**



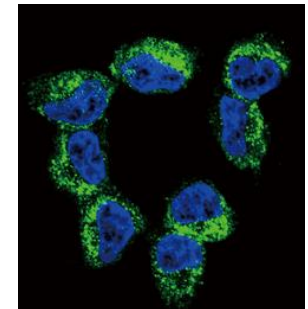
Western blot analysis with CEM cell line lysates (35 µg/lane). BDNF (arrow) was detected using the purified pAb.



Formalin-fixed and paraffin-embedded human brain tissue reacted with BDNF antibody (Cat # 6725-100), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow cytometric analysis of CEM cells using BDNF Antibody (CT) (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Confocal immunofluorescent analysis of BDNF Antibody (CT) (Cat # 6725) with NCI-H460 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).

**RELATED PRODUCTS:**

- BDNF Antibody (Cat. No. 5004-100)
- BDNF, human recombinant (Cat. No. 4004-10, -50, -1000)
- ProBDNF, human recombinant (Cat. No. 4723-10, -50, -1000)
- TrkB Antibody (Cat. No. 3593-100)
- BDNF (human) ELISA Kit (Cat. No. K4788-100)