ICOSAGEN

Mouse mAb to hBDNF (clone 3B2)

Catalogue #	329-100
Immunogen:	Human BDNF
Immunogen Description:	Recombinant human BDNF protein purified from E. coli
Alternative Names:	Abrineurin
Uniprot ID:	P23560
Clonality:	Mouse monoclonal
Clone:	3B2
Class:	mIgG2b
Reactivity:	Human, mouse, rat, guinea pig
Application:	ELISA, WB, IF
ELISA:	0,2-1 µg/ml
IF:	0,33-20 µg/ml
Purification:	Protein G purification
Buffer:	PBS pH 7.4 with 0.1% sodium azide
Shipping:	This product is shipped in non-frozen liquid form in ambient conditions
Storage:	Store at -20… -70 °C upon receipt. Divide antibody into aliquots prior usage. Avoid multiple freeze-thaw cycles
Background:	Brain-derived neurotrophic factor (BDNF) plays an important role in activity-dependent synaptic plasticity such as long-term potentiation. BDNF acts on certain neurons of the central nervous system and the peripheral nervous system, helping to support the survival of existing neurons, and encourage the growth and differentiation of new neurons and synapses

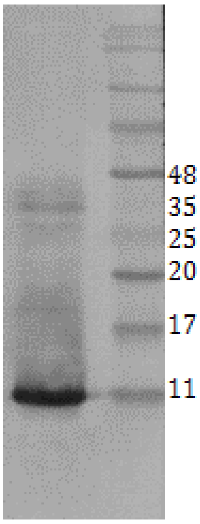

Figure 1. Western Blot analysis of anti-BDNF monoclonal antibody 3B2. Lane 1: 10 µl of supernatant was loaded into the gel under reducing conditions. Antibody concentration 5 µg/ml. HRP-conjugated Goat anti-Mouse IgG was used as secondary antibody. **Lane 2:** Protein size marker

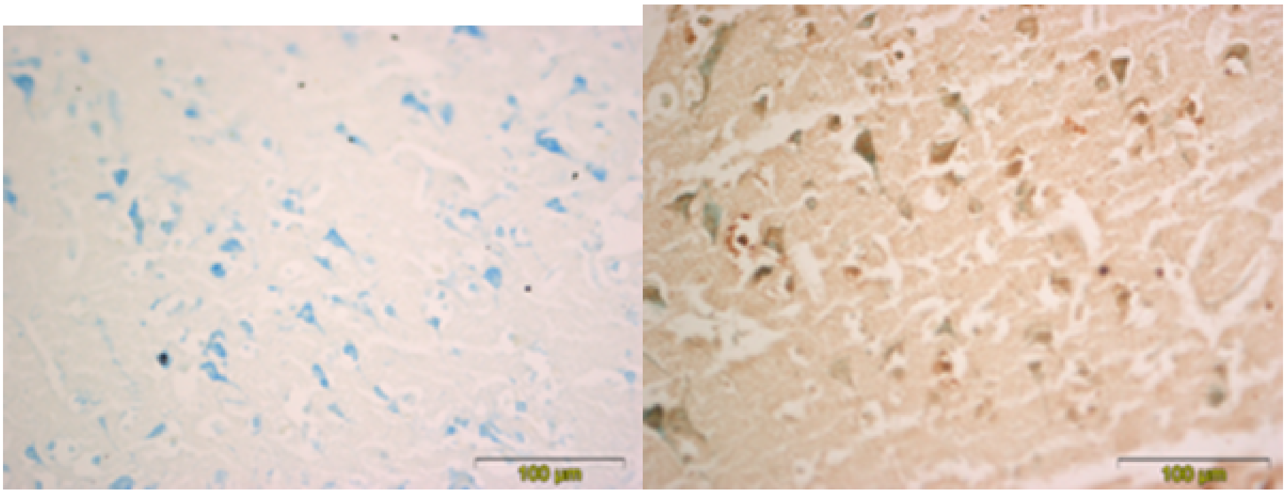

Figure 2. Immunohistochemistry testing of anti-BDNF monoclonal antibody 3B2. Analysis was performed using FFPE human cerebral cortex tissue sections from Alzheimer's disease patients. Tissue sections were boiled with sodium citrate buffer (pH 6) for antigen retrieval. Incubation with primary antibody at 5 µg/ml was performed overnight at 4°C. DAKO EnVisionTM Detection System, Peroxidase/DAB was used for visualization. Sections were counterstained with toluidine blue and mounted with Eukitt mounting medium. **A**. BDNF staining by monoclonal antibody 3B2; **B**. Negative staining without primary antibody

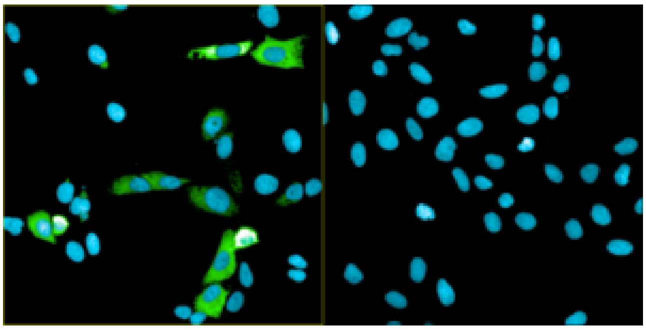

Figure 2. Immunofluorescence detection of hBDNF expression in U2OS cells by anti-BDNF monoclonal antibody 3B2. Antibody concentration 0.33 µg/ml. Goat anti-mouse AlexaFluor488 was used as secondary antibody. For nuclear staining DAPI was used. ArrayScan VTI platform (Thermo Scientific) was used for image acquisition (10x objective). Composite picture was generated using pseudocolors green for BDNF specific signal and blue for nuclei. **A.** proBDNF-expressing U2OS cells; **B.** Negative control (non-

transfected U2OS cells).