Mouse mAb to hBDNF (clone 3C11)

Catalogue #	327-100
Immunogen:	Human BDNF
Immunogen Description:	Recombinant mature human BDNF protein produced in E. coli
Alternative Names:	Abrineurin
Uniprot ID:	P23560
Clonality:	Mouse monoclonal
Clone:	3C11
Class:	mIgG1
Reactivity:	human, mouse, rat, guinea pig
Application:	ELISA, WB, IF
Protocol:	Monoclonal antibody working amount has to be established practically for each particular antigen and assay format.
ELISA:	0,02-1 µg/ml
IF:	2-20 µg/ml
Purification:	Protein G purified
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

References

Zunino, G. Messina, A. Sgadò, P. Baj, G. Casarosa, S. Bozzi, Y. Brain - derived neurotrophic factor signaling is altered in the forebrain of Engrailed-2 knockout mice. Neuroscience. 2016 Mar 14

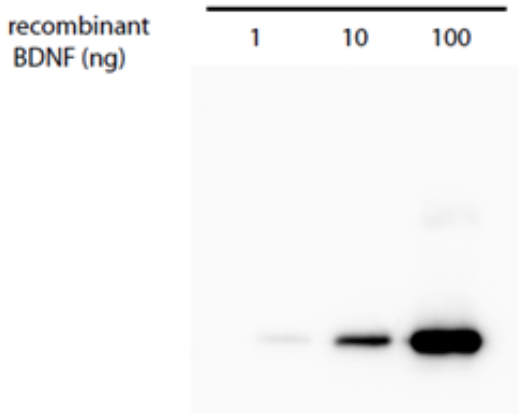

Figure 1. Western Blot testing of anti-BDNF monoclonal antibody 3C11 (5 µg/ml). Different amounts (1, 10 and 100 ng) of recombinant hBDNF (E. coli produced) was loaded per lane. Photo courtesy of Indrek Koppel and Tõnis Timmusk, Tallinn Technical University, Institute of Gene Technology.

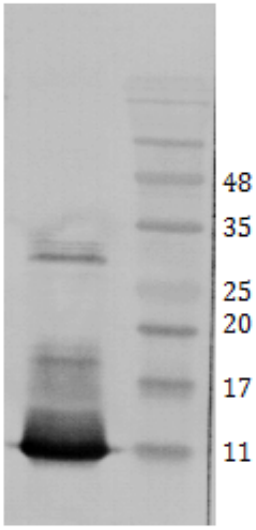

Figure 2. Western Blot testing of anti-BDNF monoclonal antibody 3C11 (5 µg/ml). HRP-conjugated goat anti-mouse antibody was used as secondary antibody. 10 µl of CHO supernatant containing BDNF was loaded per lane.

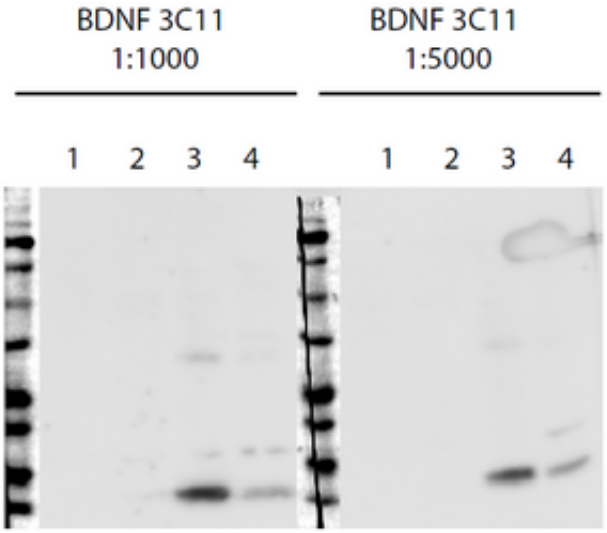

Figure 3. Western Blot testing of anti-BDNF monoclonal antibody 3C11. Antibody concentrations of 1 µg/ml and 0.2 µg/ml was used. 20 µg of cell lysate was loaded per lane. Lanes 1 and 2 – rat astrocytes' culture preparation. Lanes 3 and 4 – rat hippocampal neuron culture lysate. Photo courtesy of Indrek Koppel and Tõnis Timmusk, Tallinn Technical University, Institute of Gene Technology.