

Rabbit polyclonal antibody to human CDNF

Catalogue #	300-100
Immunogen:	Human CDNF
Immunogen Description:	Recombinant human CDNF protein produced using CHO-based Icosagen Cell factory Ltd. proprietary suspension cell line. Purified from cell culture supernatant.
Alternative Names:	ARMETL1
Uniprot ID:	Q49AH0
Clonality:	Polyclonal
Class:	IgG
Reactivity:	Human, mouse; others not tested
Application:	ELISA, WB, IF, IHC-P
Protocol:	Monoclonal antibody working dilution has to be established practically for each particular antigen and assay format
ELISA:	0,1-0,2 µg/ml
IF:	0,3-2 µg/ml
IHC-P:	5-10 µg/ml (on formalin fixed, paraffin-embedded tissues, antigen retrieval)
Purification:	CDNF-affinity purification
Buffer:	50% saturated ammonium sulphate in PBS pH 7.4
Shipping:	This product is shipped in non-frozen liquid form in ambient conditions
Storage:	Store at +4°C upon receipt. As product is $(\text{NH}_4)_2\text{SO}_4$ precipitate, mix well by pipetting or vortexing prior use
Background:	CDNF is a trophic factor for midbrain dopamine neurons in vivo. It prevents the 6-OHDA- (Lindholm et al. 20007; Voutilainen et al., 2011)

and MPTP-induced degeneration (Airavaara et al., 2012) of dopamine neurons in rodent models of Parkinson's disease. When administered after 6-OHDA or MPTP –lesioning it restores the dopaminergic function and prevents degeneration of dopamine neurons in substantia nigra pars compacta

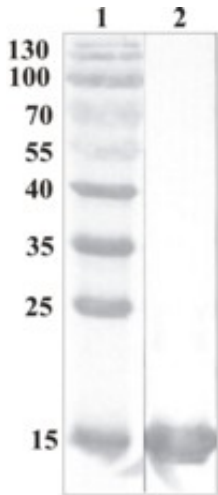


Figure 1. Western Blot testing of anti-CDNF polyclonal antibody. Line 1. PageRuler Prestained Protein Ladder (#SM0671 Fermentas); Line 2. Recombinant CDNF expressed into the supernatant of CHO cell culture medium.

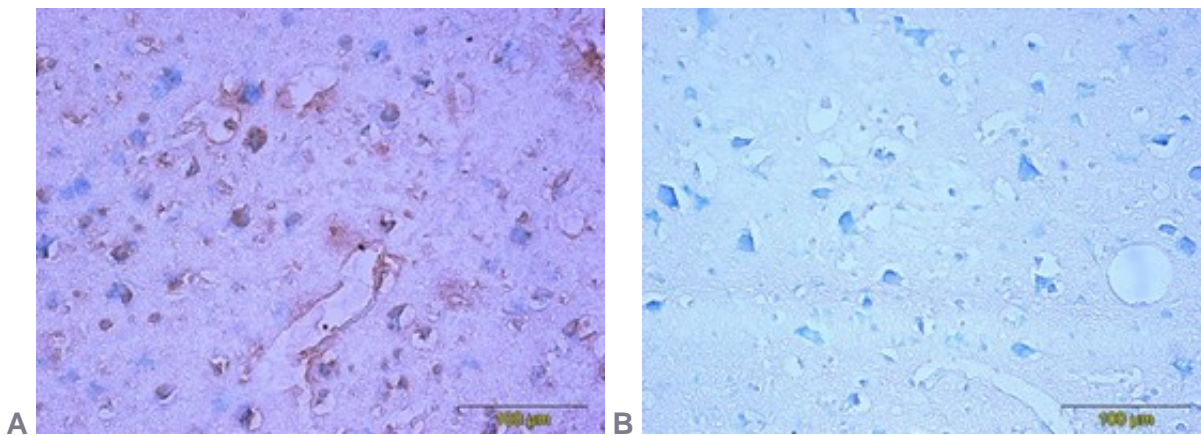


Figure 2. Immunohistochemistry testing of anti-CDNF rabbit polyclonal antibody. Analysis was performed using formalin-fixed paraffin-embedded human cerebral cortex tissue sections from Alzheimer's disease patients. Tissue sections were boiled with sodium citrate buffer (pH 6) for antigen retrieval. Incubation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

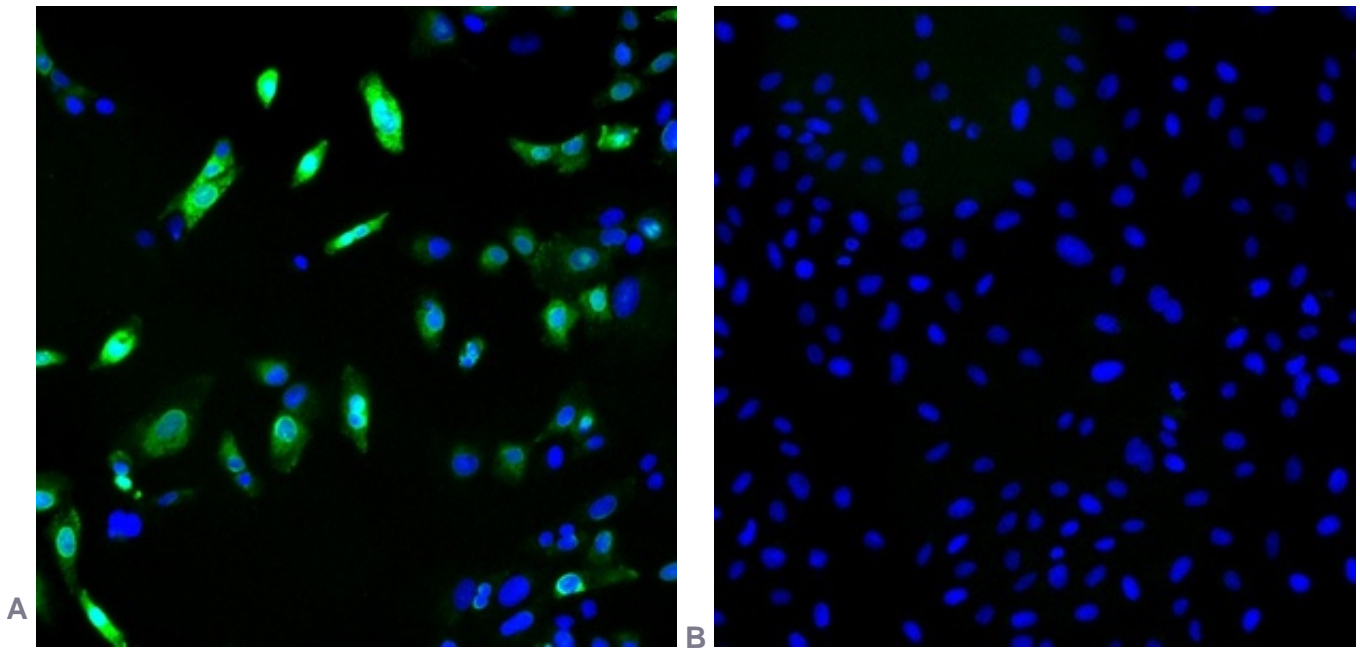


Figure 3. Immunofluorescence detection of human CDNF expressed in U2OS cells. CDNF was visualized using anti-CDNF rabbit polyclonal antibody, dilution 1:3000. Goat ant-rabbit AlexaFluor488 was used as secondary antibody. For nuclear staining DAPI was used. ArrayScan VTI platform (Thermo Scientific) was used for image acquisition (10x objective). Composite picture was generated using pseudocolors green for CDNF specific signal and blue for nuclei. A. CDNF-expressing U2OS cells; B. Negative control (non-transfected U2OS cells).