



Mouse mAb to hCDNF (clone 7D6)

Catalogue #	301-100
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:	Mouse monoclonal
Clone:	7D6
Class:	mIgG1
Reactivity:	Human, mouse; others not tested Binds to the N-terminal part of the human CDNF (aa 25-125)
Application:	ELISA, WB, IF
Protocol:	Monoclonal antibody working dilution has to be established practically for each particular antigen and assay format
ELISA:	(rhCDNF) 0,1-0,2 µg/ml; (rmCDNF) 0,13-0,4 µg/ml
IF:	0,33-10 µg/ml
Purification:	Protein G purification
Buffer:	PBS pH 7.4, with 0.1% sodium azide
Related Products:	Mono- and polyclonal antibodies to human CDNF. For more details www.icosagen.com/products/?antibodies
Shipping:	This product is shipped in non-frozen liquid form in ambient conditions
Storage:	Store at -20°C to -70 °C upon receipt. Divide antibody into aliquots prior usage. Avoid multiple

freeze-thaw cycles as product degradation may result

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

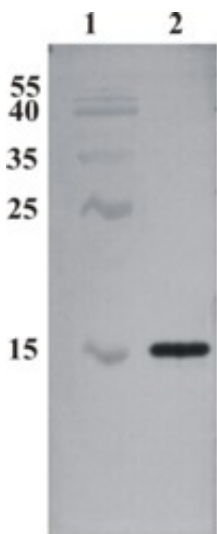


Figure 1. Western Blot testing of anti-CDNF monoclonal antibody (7D6). Line 1. PageRuler Prestained Protein Ladder (#SM0671 Fermentas); Line 2. Recombinant CDFN expressed into the supernatant of CHO cell culture medium.

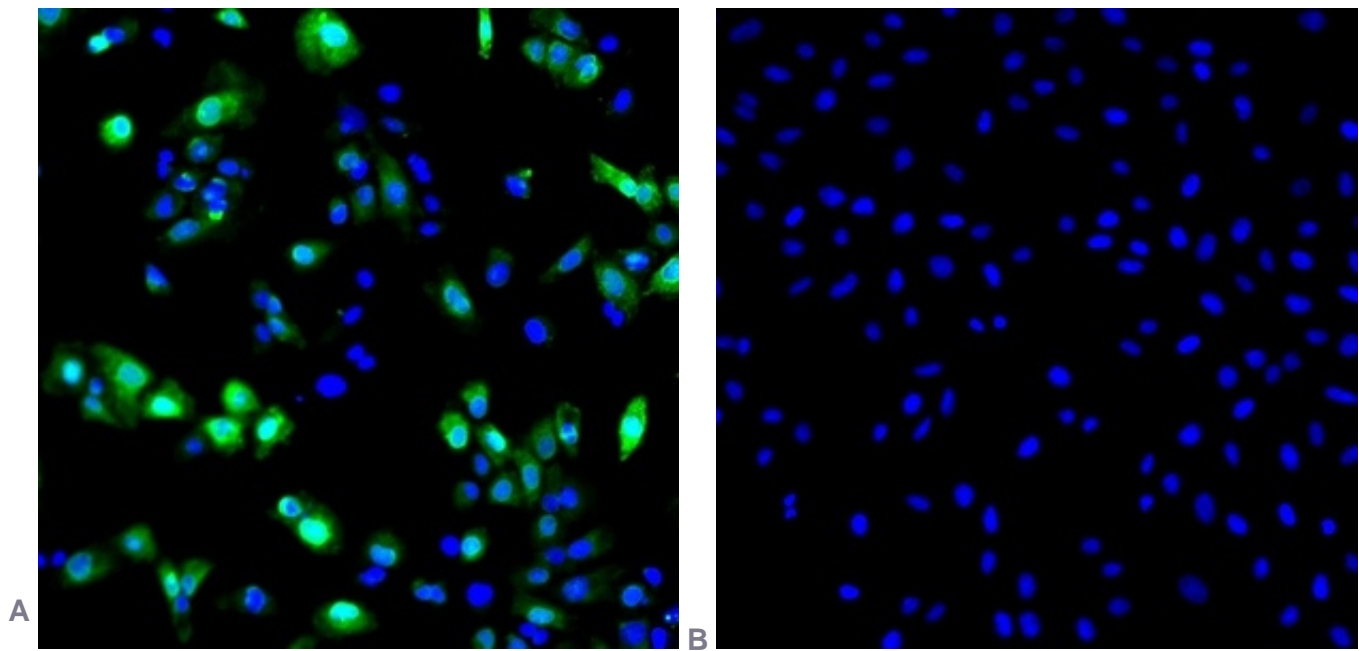


Figure 2. Immunofluorescence detection of human CDNF expressed in U2OS cells. CDNF was visualized using anti-CDNF antibody clone 7D6 at 1 $\mu\text{g/ml}$. Goat anti-mouse AlexaFluor488 was used as secondary antibody. For nuclear staining DAPI was used. ArrayScan VTI platform (Thermo Scientific) was used for image acquisition (10x objective). Composite picture was generated using pseudocolors green for CDNF specific signal and blue for nuclei. A. CDNF-expressing U2OS cells; B. Negative control.