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Product datasheet for AM33441PU-N

ARMETL1 (CDNF) Mouse Monoclonal Antibody [Clone ID: 7G5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	7G5
Applications:	ELISA, IF, IHC, WB
Recommended Dilution:	**ELISA:** 1/5000-1/10000. **Western Blot:** 1/1000-1/4000. **Immunofluorescence:** 1/100-1/300. **Immunohistochemistry on Paraffin Sections:** 1/100-1/200. Formalin-fixed, paraffin-embedded tissues requires antigen retrieval.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant Human CDNF produced using CHO-based. Antigen is purified from cell culture supernatant.
Specificity:	Recognizes Human CDNF and not Mouse CDNF. Other species not tested.
Formulation:	PBS pH 7.4 State: Aff - Purified State: Liquid purified IgG fraction Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G
Conjugation:	Unconjugated
Storage:	Upon receipt, store (in aliquots) at -20°C to -80°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	cerebral dopamine neurotrophic factor

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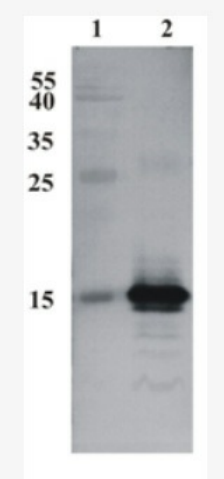
Database Link: Entrez Gene 441549 Human
Q49AH0

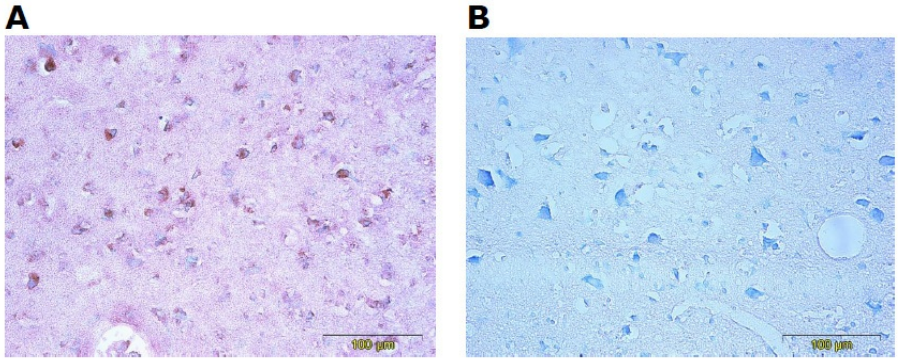
Background: CDNF is a trophic factor for midbrain dopamine neurons*in vivo*. It prevents the 6-OHDA-(Lindholm et al. 20007; Voutilainen et al., 2011) and MPTP-induced degeneration (Airavaara et al., 2012) of dopamine neurons in rodent models of Parkinson's disease. When administered after 6-OHDA or MPTP –lesioning it restores the dopaminergic function and prevents degeneration of dopamine neurons in substantia nigra pars compacta.

Synonyms: ARMET-like protein 1, ARMETL1

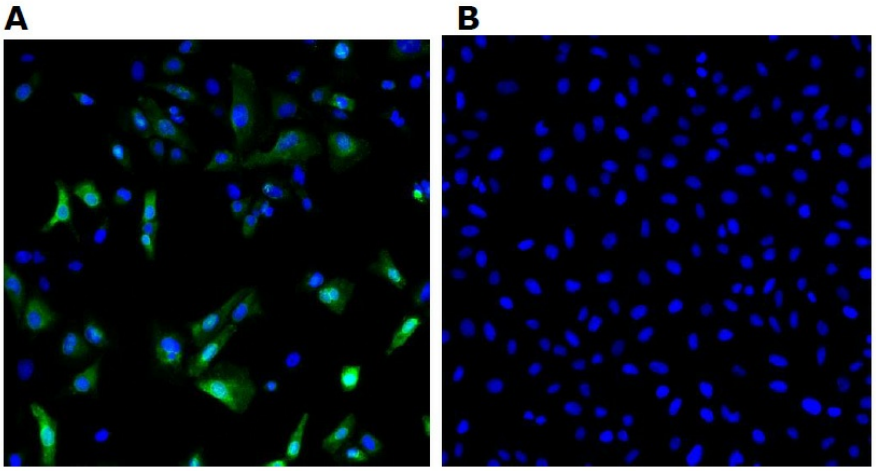
Product images:



Western Blot testing of anti-CDNF monoclonal antibody (6G5). Line 1: PageRuler Prestained Protein Ladder (#[SM0671] Fermentas); Line 2: Recombinant CDNF expressed into the supernatant of CHO cell culture medium.



Immunohistochemistry testing of anti-CDNF monoclonal antibody 6G5. 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 ug/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 monoclonal antibody 6G5; **B.** Negative staining without primary antibody.



Immunofluorescence detection of human CDNF expressed in U2OS cells. CDNF was visualized using anti-CDNF antibody clone 6G5 at 1 ug/ml. Goat ant-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 (non-transfected U2OS cells).