

Product datasheet for **AM33443PU-N**

GDNF Mouse Monoclonal Antibody [Clone ID: 3C1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	3C1
Applications:	ELISA, IF, IHC, WB
Recommended Dilution:	ELISA: 50-100 ng/ml. Western Blot: 2-5 µg/ml. Immunofluorescence: 2-10 µg/ml. Immunohistochemistry on Paraffin Sections: 5 µg/ml.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant human GDNF protein produced using <i>E. coli</i> expression system.
Specificity:	Recognizes Human GDNF. 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:	glial cell derived neurotrophic factor
Database Link:	Entrez Gene 2668 Human P39905



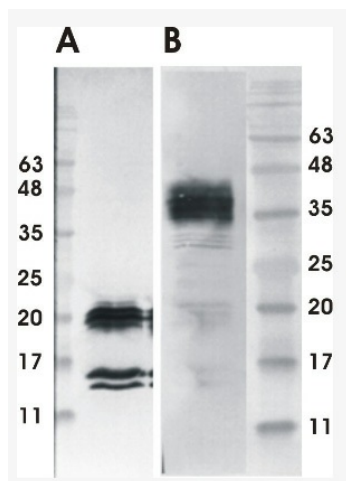
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Background:

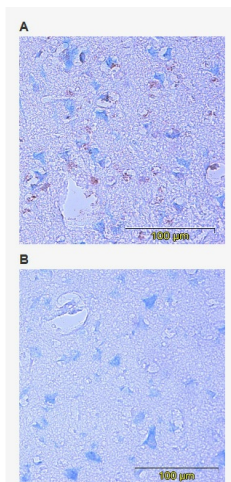
GDNF is a neurotrophic factor that enhances survival and morphological differentiation of dopaminergic neurons and increases their high-affinity dopamine uptake. Ligand for the GFR-alpha-3-RET receptor complex but can also activate the GFR-alpha-1-RET receptor complex.

Synonyms:

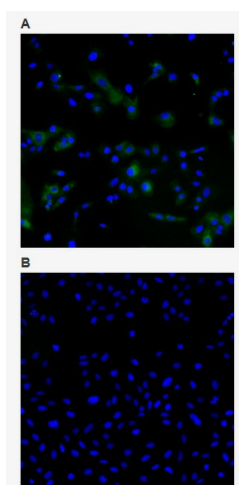
Glial cell line-derived neurotrophic factor, Astrocyte-derived trophic factor, ATF

Product images:

Western Blot testing of GDNF monoclonal antibody 3C1. Analysis was performed with anti GDNF monoclonal antibody 3C1 HRP conjugate. 15 μ l of CHOEBNALT85 GDNF producing cell culture supernatant was loaded per lane. Analysis was performed in reducing (A) and non-reducing (B) conditions.



Immunohistochemistry testing of anti-GDNF monoclonal antibody 3C1. 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 μ g/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. GDNF staining by monoclonal antibody 3C1; B. Negative staining without primary antibody.



Immunofluorescence detection of human GDNF expressed in U2OS cells by anti-GDNF monoclonal antibody 3C1. Anti-GDNF antibody 3C1 concentration in IF experiment was 10 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 GDNF specific signal and blue for nuclei. A. GDNF-expressing U2OS cells; B. Negative control (non-transfected U2OS cells).