Datasheet for ABIN736536

anti-GDNF antibody (AA 121-211)

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Overview

Quantity:	100 µL
Target:	GDNF
Binding Specificity:	AA 121-211
Reactivity:	Human, Mouse, Rat, Cow, Rabbit
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GDNF antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human GDNF
Isotype:	IgG
Cross-Reactivity:	Cow, Human, Mouse, Rabbit, Rat
Predicted Reactivity:	Dog,Cow,Pig,Horse,Chicken
Purification:	Purified by Protein A.

Target Details

Target:	GDNF

Target Details

Alternative Name:	GDNF (GDNF Products)
Background:	Synonyms: ATF1, ATF2, HSCR3, HFB1-GDNF, Glial cell line-derived neurotrophic factor, hGDNF, Astrocyte-derived trophic factor, ATF, GDNF Background: Neurotrophic factor that enhances survival and morphological differentiation of dopaminergic neurons and increases their high-affinity dopamine uptake.
Gene ID:	2668
UniProt:	P39905
Pathways:	RTK Signaling, Synaptic Membrane, Tube Formation, Autophagy, Smooth Muscle Cell Migration

Application Details

Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	FCM 1:20-100
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200

Restrictions:	For Research Use only

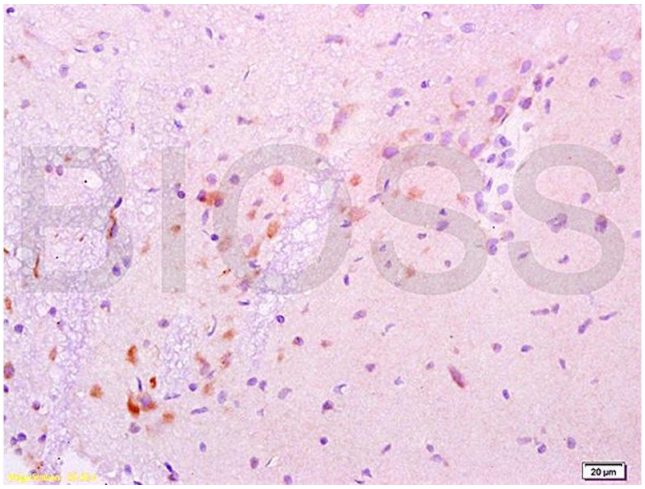
Handling

Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

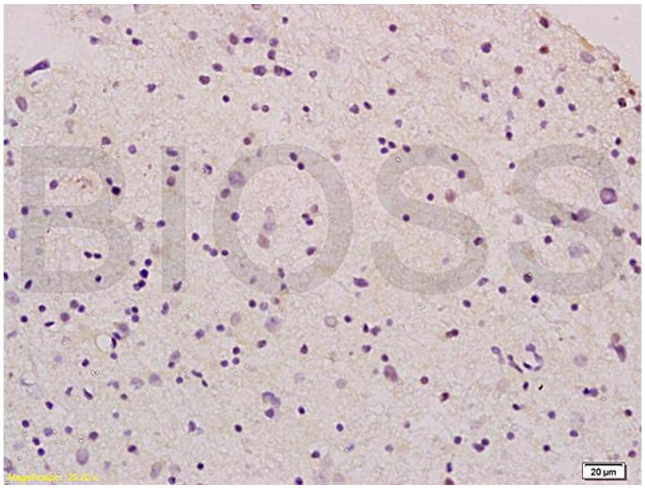
Product cited in: Zhang, Cai, Song, Dong, Hou, Lv: "Normalization of ventral tegmental area structure following acupuncture in a rat model of heroin relapse." in: **Neural regeneration research**, Vol. 9, Issue 3, pp. 301-7, (2014) (PubMed).

Validation report #102003 for Immunofluorescence (IF)



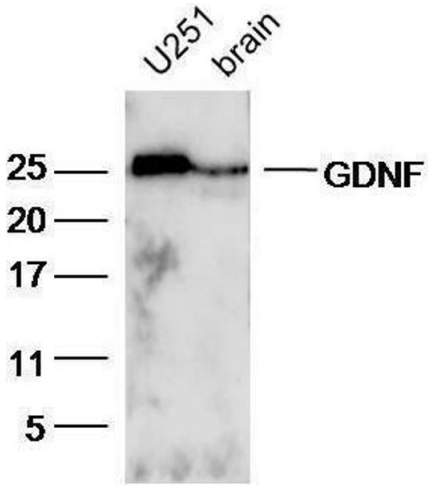
Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded rat brain labeled with Anti-GDNF Polyclonal Antibody, Unconjugated (ABIN736536) at 1:200 followed by conjugation to the secondary antibody and DAB staining.



Immunohistochemistry

Image 2. Formalin-fixed and paraffin embedded human glioma tissue labeled with Anti-GDNF Polyclonal Antibody, unconjugated (ABIN736536) at 1: 200 followed by incubation with conjugated secondary antibody and DAB staining



Western Blotting

Image 3. Lane 1:U251 lysates and Lane 2: Mouse brain lysates probed with Rabbit Anti-GDNF Polyclonal Antibody, Unconjugated at 1:5000 for 90 min at 37˚C.

Please check the product details page for more images. Overall 5 images are available for ABIN736536.

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Successfully validated (Immunofluorescence (IF))

by Prof. Merighi, Laboratory of Neurobiology, Department of Veterinary Sciences, University of Turin

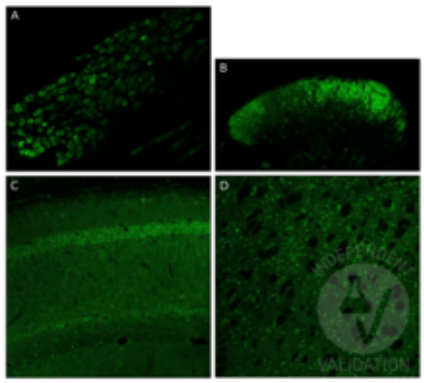
Report Number: 102003

Date: Feb 12 2018

Target:	GDNF
Lot Number:	9F01M8
Method validated:	Immunofluorescence (IF)
Positive Control:	mouse hippocampus and putamen
Negative Control:	no primary control
Notes:	ABIN736536 works in IF albeit with some background staining that we have been unable to eliminate although using different dilutions to increase the signal-to-noise ratio.
Primary Antibody:	ABIN736536
Secondary Antibody:	anti-rabbit AF488 conjugated antibody (Life Technologies)
Protocol:	• Perfuse mouse with 4% paraformaldehyde in 0.1M phosphate buffer (PB) pH7.4. • Post-fix spinal cord and brain blocks in the same fixative for additional 2h at RT. • Wash spinal cord and brain blocks several times with PBS. • Cut blocks with a vibratome (Leica, VT1000 S) into 70µm thick transverse sections. • Cut dorsal root ganglions (DRGs) with a cryostat into 17µm thick sections after cryoprotection and glass mounting. • Block free floating vibratome and glass mounted cryostat sections with blocking solution (0.01M PBS5% Normal Goat Serum (NGS; Sigma, G9023, lot SLBV1396), 0.1% Triton X-100 (BioRad, 161-0407, lot 00583) for 1h at RT. • Incubate sections with primary rabbit anti-GDNF antibody (antibodies-online, ABIN736536, lot 9F01M8) diluted 1:100 in blocking solution ON at RT. • Wash sections 4x for 5min with 0.01M PBS. • Incubate sections with secondary goat anti-rabbit AF488 conjugated antibody (Life Technologies) diluted 1:500 in PBS for 1h at RT. • Wash sections 4x for 5min with 0.01M PBS. • Mount sections in Fluoroshield (Sigma, F6182, lot MKCB0153V).
Experimental Notes:	• Different dilutions were also tested (1:200, 1:500, 1:2000) with or without Triton-X but the 1:100 dilution and the use of Triton-X in the blocking solution gave the best results. • Staining is mainly present in the cytoplasm of small-size neurons in the DRG, consistent with what has been previously described. ABIN736536 stains fibers in superficial laminae of the

dorsal horn of the spinal cord. In the hippocampus staining is present in the CA1 both in the pyramidal neurons (cell body and dendrites) and in individual interneurons. In the putamen ABIN736536 stains neuron cell bodies and some dendrites.

Image for Validation report #102003



Validation image no. 1 for anti-Glial Cell Line Derived Neurotrophic Factor (GDNF) (AA 121-211) antibody (ABIN736536)

IF staining with ABIN736536 of mouse dorsal root ganglion (DRG, A), the dorsal horn of the spinal cord (B), and the hippocampus CA1 (C) and Putamen (D).