

Datasheet for ABIN5066753
anti-GDNF antibody (Atto 594)

3 Images

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Overview

Quantity:	100 µg
Target:	GDNF
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GDNF antibody is conjugated to Atto 594
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunofluorescence (IF)

Product Details

Immunogen:	Synthetic peptide from the mid-protein of Human GDNF
Isotype:	IgG
Specificity:	In the brain, predominantly expressed in the striatum with highest levels in the caudate and lowest in the putamen. Isoform 2 is absent from most tissues except for low levels in intestine and kidney. Highest expression of isoform 3 is found in pancreatic islets. Isoform 5 is expressed at very low levels in putamen, nucleus accumbens, prefrontal cortex, amygdala, hypothalamus and intestine. Isoform 3 is up-regulated in the middle temporal gyrus of Alzheimer disease patients while isoform 2 shows no change. Detects ~24 kDa.
Cross-Reactivity:	Human, Rat
Purification:	Peptide Affinity Purified

Target Details

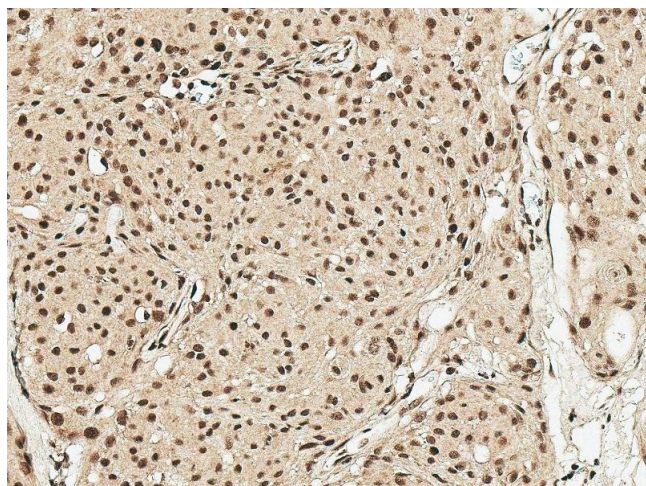
Target:	GDNF
Alternative Name:	GDNF (GDNF Products)
Gene ID:	2668
NCBI Accession:	NP_000505
UniProt:	P39905
Pathways:	RTK Signaling , Synaptic Membrane , Tube Formation , Autophagy , Smooth Muscle Cell Migration

Application Details

Application Notes:	<ul style="list-style-type: none">• WB (1:1000)• ICC/IF (1:100)• IHC (1:50)• optimal dilutions for assays should be determined by the user.
Comment:	A 1:1000 dilution of ABIN5066753 was sufficient for detection of GDNF in 15 µg of human HeLa cell lysates by ECL immunoblot analysis using goat anti-rabbit IgG:HRP as the secondary antibody.
Restrictions:	For Research Use only

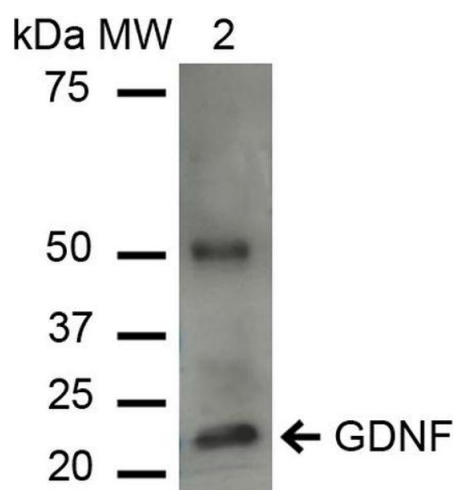
Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Conjugated antibodies should be stored at 4°C



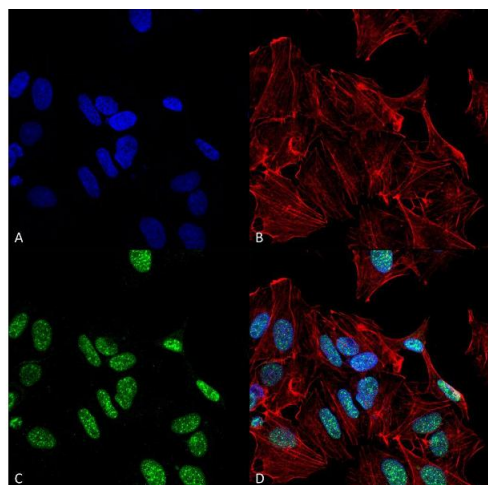
Immunohistochemistry

Image 1. Immunohistochemistry analysis using Rabbit Anti-GDNF Polyclonal Antibody (ABIN5066753). Tissue: Brain. Species: Human. Fixation: Formalin Fixed Paraffin-Embedded. Primary Antibody: Rabbit Anti-GDNF Polyclonal Antibody (ABIN5066753) at 1:50 for 30 min at RT. Counterstain: Hematoxylin. Magnification: 20X.



Western Blotting

Image 2. Western blot analysis of Human HeLa cell lysates showing detection of ~23.7 kDa GDNF protein using Rabbit Anti-GDNF Polyclonal Antibody. Lane 1: Molecular Weight Ladder (MW). Lane 2: HeLa cell lysates. Load: 15 µg. Block: 5% Skim Milk in 1X TBST. Primary Antibody: Rabbit Anti-GDNF Polyclonal Antibody at 1:1000 for 2 hours at RT. Secondary Antibody: Goat Anti-Rabbit IgG: HRP at 1:1000 for 60 min at RT. Color Development: ECL solution for 6 min in RT. Predicted/Observed Size: ~23.7 kDa. Other Band(s): 50 kDa is a dimer.



Immunofluorescence (fixed cells)

Image 3. Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-GDNF Polyclonal Antibody. Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Rabbit Anti-GDNF Polyclonal Antibody at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:200 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60 min at RT, 5 min at RT. Localization: Vesicles, Nucleoplasm. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) GDNF Antibody (D) Composite.