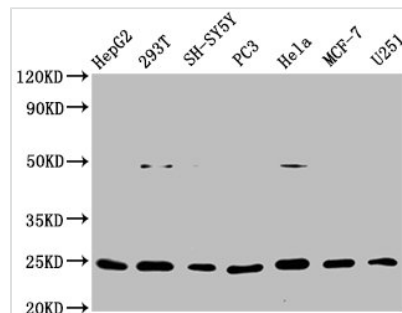




GDNF Antibody

Product Code	CSB-RA009356A0HU
Abbreviation	Glial cell line-derived neurotrophic factor
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P39905
Immunogen	A synthesized peptide derived from human GDNF
Species Reactivity	Human
Tested Applications	ELISA, WB, IHC, FC, IP; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:200, IP:1:200-1:1000
Relevance	Neurotrophic factor that enhances survival and morphological differentiation of dopaminergic neurons and increases their high-affinity dopamine uptake.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Alias	Glial cell line-derived neurotrophic factor, hGDNF, Astrocyte-derived trophic factor, ATF, GDNF
Immunogen Species	Homo sapiens (Human)
Research Area	Neuroscience
Gene Names	GDNF
Accession NO.	11D2

Image



Western Blot

Positive WB detected in: HepG2 whole cell lysate, 293T whole cell lysate, SH-SY5Y whole cell lysate, PC3 whole cell lysate, HeLa whole cell lysate, MCF-7 whole cell lysate, U251 whole cell lysate

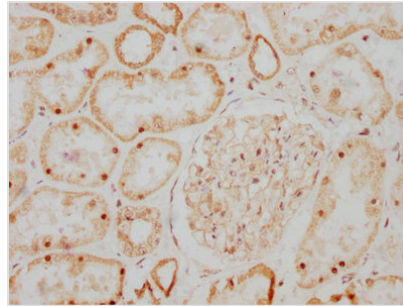
All lanes: GDNF antibody at 1µg/ml

Secondary

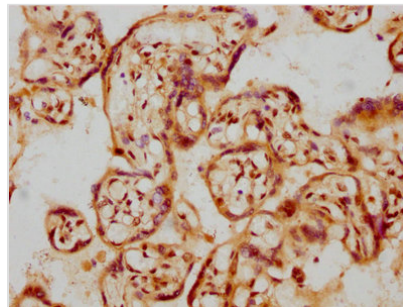
Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 24, 21, 26, 23, 19 KDa

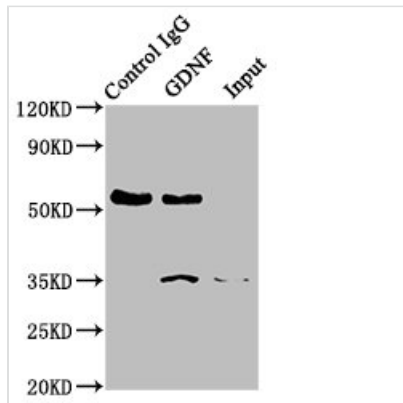
Observed band size: 24 KDa



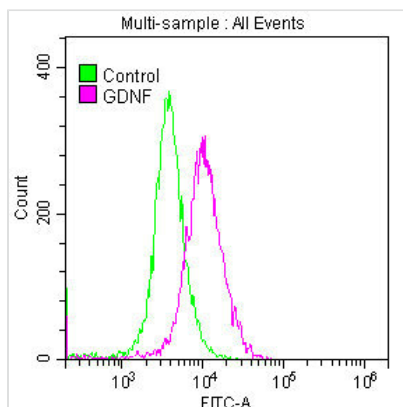
IHC image of CSB-RA009356A0HU diluted at 1:107.5 and staining in paraffin-embedded human kidney tissue performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



IHC image of CSB-RA009356A0HU diluted at 1:107.5 and staining in paraffin-embedded human placenta tissue performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



Immunoprecipitating GDNF in HeLa whole cell lysate
 Lane 1: Rabbit control IgG instead of CSB-RA009356A0HU in HeLa whole cell lysate. For western blotting, a HRP-conjugated Protein G antibody was used as the secondary antibody (1/2000)
 Lane 2: CSB-RA009356A0HU (3µg) + HeLa whole cell lysate (500µg)
 Lane 3: HeLa whole cell lysate (20µg)



Overlay histogram showing SH-SY5Y cells stained with CSB-RA009356A0HU (red line) at 1:50. The cells were fixed with 70% Ethylalcohol (18h) and then permeabilized with 0.3% Triton X-100 for 2 min. The cells were then incubated in 1x PBS /10% normal goat serum to block non-specific protein-protein interactions followed by primary antibody for 1 h at 4°C. The secondary antibody used was FITC goat anti-rabbit IgG (H+L) at 1/200 dilution for 1 h at 4°C. Control antibody (green line) was used under the same conditions. Acquisition of >10,000 events was performed.

Description

The product CSB-RA009356A0HU is a recombinant GDNF monoclonal antibody. It is generated by transfecting the human GDNF gene-vector clones into the cell line for in vitro production and subsequent purification from the tissue culture supernatant (TCS). This GDNF antibody can react with human



GDNF protein. It has undergone affinity-chromatography purification. And it has been tested for use in multiple applications, including ELISA, WB, IHC, FC, and IP.

GDNF protein was first identified as a trophic factor that promotes the survival of midbrain dopaminergic neurons during embryonic development. It later has been demonstrated to be a neurotrophic factor that plays an essential role in the development and maintenance of the central and peripheral nervous system.