Anti-GDNF Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R015411

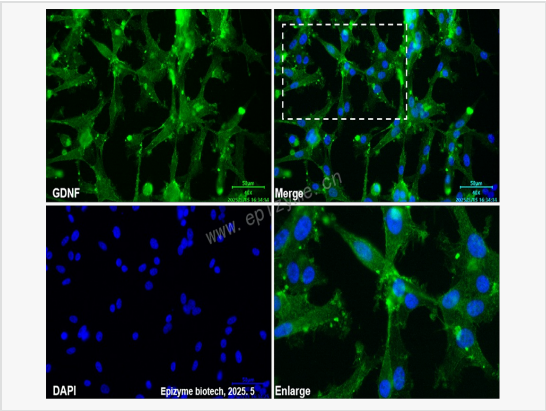
Product Information

Application	WB, IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	23P45A82
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human GDNF
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-GDNF Rabbit mAb [23P45A82] is for research use only and not for use in diagnostic or therapeutic procedures.

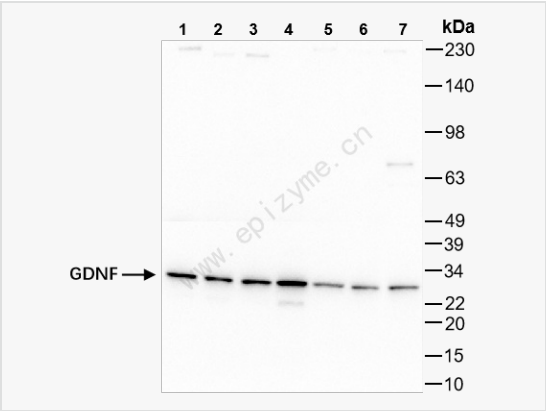
Protein Information

Synonyms	Astrocyte derived trophic factor; Astrocyte derived trophic factor 1; Astrocyte derived trophic factor; ATF 1; ATF 2; Atf; ATF1; ATF2; gdnf; GDNF HUMAN; Glial cell derived neurotrophic factor; Glial Cell Line Derived Neurotrophic Factor; Glial cell line derived neurotrophic factor; Glial derived neurotrophic factor; HFB1 GDNF; hGDNF; HSCR3.
Calculated MW	Calculated MW: 24 kDa; Observed MW: 24 kDa
Uniprot ID	P39905
Gene ID	2668
Background	This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate each subunit of the disulfide-linked homodimer. The recombinant form of this protein, a highly conserved neurotrophic factor, was shown to promote the survival and differentiation of dopaminergic neurons in culture, and was able to prevent apoptosis of motor neurons induced by axotomy. This protein is a ligand for the product of the RET (rearranged during transfection) protooncogene. Mutations in this gene may be associated with Hirschsprung disease and Tourette syndrome. This gene encodes multiple protein isoforms that may undergo similar proteolytic processing. [provided by RefSeq, Aug 2016].
Cellular Location	Secreted.
Tissue Location	In the brain, predominantly expressed in the striatum with highest levels in the caudate and lowest in the putamen.

Validation Images



Immunofluorescence - Anti-GDNF Rabbit mAb [23P45A82]
Sample: U87 cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R015411 at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green)
Nuclei were stained with DAPI (shown in blue).



Western Blot - Anti-GDNF Rabbit mAb [23P45A82]
All lanes: R015411 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: Huh1 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 3: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 4: 293T (Human embryonic kidney cell) whole cell lysates
Lane 5: U87 (Human malignant glioblastoma epithelial cells) whole cell lysates
Lane 6: Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates
Lane 7: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 24 kDa
Observed band size: 24 kDa
Developed using the ECL technique (Cat. No. SQ201).