

Rabbit anti-Human, Rat GDNF Polyclonal Antibody | anti-GDNF antibody

GDNF Antibody: ATTO 594

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA253955	Rabbit	Human, Rat	Immunohistochemistry, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

GDNF; Polyclonal Antibody; GDNF Antibody: ATTO 594; Rabbit Anti-Human GDNF Polyclonal; Glial cell line-derived neurotrophic factor Antibody; Astrocyte-derived trophic factor Antibody; Astrocyte derived trophic factor 1 Antibody; Glial cell derived neurotrophic factor Antibody; ATF 1 Antibody; ATF 2 Antibody; Glial Cell Line Derived Neurotrophic Factor Antibody; ATF Antibody; Atf Antibody; HSCR3 Antibody; Astrocyte derived trophic factor Antibody; ATF2 Antibody; GDNF_HUMAN Antibody; GDNF Antibody; Glial derived neurotrophic factor Antibody; ATF1 Antibody; gdnf Antibody; HFB1 GDNF Antibody; hGDNF Antibody; anti-GDNF antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Specificity	Detects ~24 kDa. 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.
Purity/Purification	Peptide Affinity Purified
Form/Format	PBS, 50% glycerol, 0.09% Sodium Azide
Concentration	1 mg/ml (varies by lot)
Sequence Length	159
Applicable Applications for anti-GDNF antibody	IHC (Immunohistochemistry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	Synthetic peptide from the mid-protein of Human GDNF
Immunogen Species	Human
Conjugate	ATTO 594
Cellular Localization	Secreted
Certificate of Analysis	A 1:1000 dilution was sufficient for detection of GDNF in 15 ug of human HeLa cell lysates by ECL immunoblot analysis using goat anti-rabbit IgG:HRP as the secondary antibody.
Preparation and Storage	Store at -20 degree C.

IMAGES



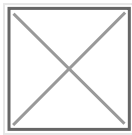
WB (Western Blot)

Western blot analysis of Human Cervical cancer cell line (HeLa) lysate 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 ug. 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.



IHC (Immunohistochemistry)

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



ICC (Immunocytochemistry)

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-Rabbit 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.

ADDITIONAL INFORMATION

Product Categories/Family for anti-GDNF antibody	Neuroscience; Neurodegeneration; Parkinson's Disease; Neuroscience; Neurodegeneration; ALS Disease; Alzheimer's Disease
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NCBI AND UNIPROT INFORMATION

NCBI GI #	493796159
NCBI GeneID	2668
NCBI Accession #	NP_001265027.1
NCBI GenBank Nucleotide #	NM_001278098.1
UniProt Accession #	P39905
NCBI Official Full Name	glial cell line-derived neurotrophic factor isoform 5
NCBI Official Synonym Full Names	glial cell derived neurotrophic factor
NCBI Official Symbol	GDNF
NCBI Official Synonym Symbols	ATF; ATF1; ATF2; HSCR3; HFB1-GDNF
NCBI Protein Information	glial cell line-derived neurotrophic factor
UniProt Protein Name	Glial cell line-derived neurotrophic factor
UniProt Gene Name	GDNF
UniProt Synonym Gene Names	hGDNF; ATF
UniProt Entry Name	GDNF_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

