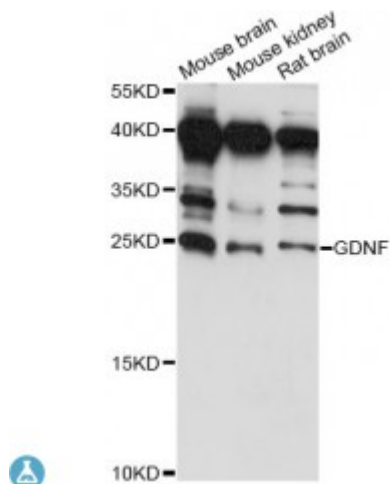


Anti-GDNF Antibody



Description

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.

Model	STJ116846
Host	Rabbit
Reactivity	Mouse, Rat
Applications	WB
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 109-211 of human GDNF (NP_000505.1).
Gene ID	2668
Gene Symbol	GDNF
Dilution range	WB 1:500 - 1:2000
Tissue 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

Purification	Affinity purification
Note	For Research Use Only (RUO).
Protein Name	Glial cell line-derived neurotrophic factor hGDNF Astrocyte-derived trophic factor ATF
Molecular Weight	23.72 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:4232 OMIM:171300 Reactome:R-HSA-419037
Alternative Names	Glial cell line-derived neurotrophic factor hGDNF Astrocyte-derived trophic factor ATF
Function	Neurotrophic factor that enhances survival and morphological differentiation of dopaminergic neurons and increases their high-affinity dopamine uptake,
Cellular Localization	Secreted