



Rabbit Anti-VGF antibody

SL6349R

Product Name:	VGF
Chinese Name:	神经生长因子诱导蛋白抗体
Alias:	NERP-1; NERP-2; Nerve growth factor inducible; Neuroendocrine regulatory peptide-2; Neurosecretory protein VGF; VGF_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Cow,Horse,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	65kDa
Cellular localization:	cytoplasmicSecretory protein
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Nerve growth factor inducible:451-550/615
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	VGF is a peptide synthesized and secreted by neurons and is upregulated by NGF in the PC12 cell line. VGF is widely expressed in both the PNS and CNS, but is especially abundant in the adult hypothalamus. VGF plays an essential role in how the brain regulates energy expenditure and body weight. Its expression is rapidly induced by injury, the circadian clock, and neuronal activity

Function:

May be involved in the regulation of cell-cell interactions or in synatogenesis during the maturation of the nervous system.

NERP peptides are involved in the control of body fluid homeostasis by regulating vasopressin release.

Subcellular Location:

Secreted. Cytoplasmic vesicle > secretory vesicle. Stored in secretory vesicles and then secreted, NERP peptides colocalize with vasopressin in the storage granules of hypothalamus.

Tissue Specificity:

Central and peripheral nervous systems, synthesized exclusively in neuronal and neuroendocrine cells.

Post-translational modifications:

Multiple peptides are derived from VGF, with activities in synaptic plasticity, antidepressation, penile erection, autonomic activation, and increases in energy expenditure.

SWISS:

O15240

Gene ID:

7425

Database links:

[Entrez Gene: 7425](#)Human

[Entrez Gene: 381677](#)Mouse

[Entrez Gene: 29461](#)Rat

[Omim: 602186](#)Human

[SwissProt: O15240](#)Human

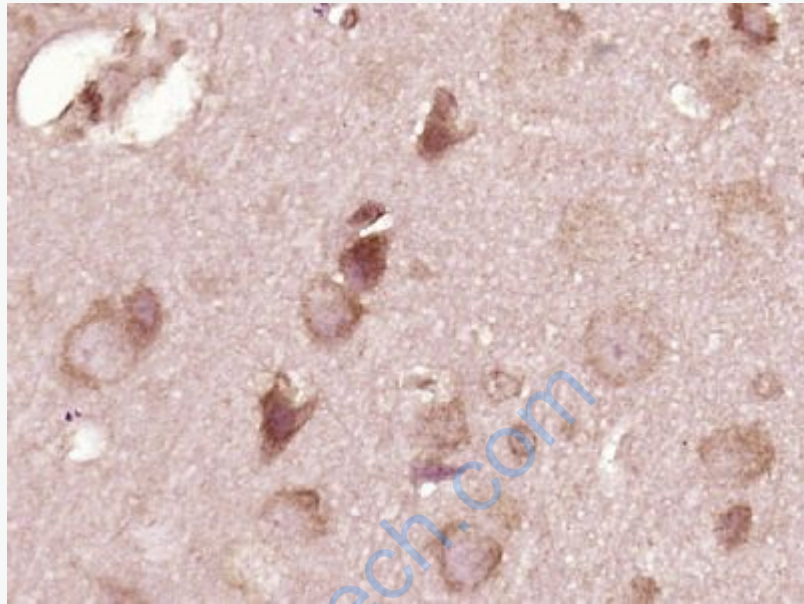
[SwissProt: P20156](#)Rat

[Unigene: 587325](#)Human

Important Note:

This product as supplied is intended for research use only, not for use in human,

therapeutic or diagnostic applications.



Picture:

Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (VGF) Polyclonal Antibody, Unconjugated (SL6349R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.