SunLong Biotech Co.,LTD
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**[ Primary Antibody ]**

# Rabbit Anti-VGF antibody

**Catalog Number: SL6349R**

**FOR RESEARCH USE ONLY**

**[ DATASHEET ]**

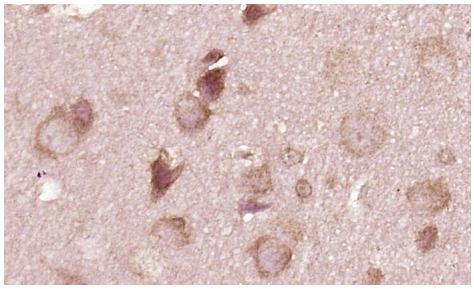
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|---|---|
| **Host:** | Rabbit |
| **Isotype:** | IgG |
| **Clonality:** | Polyclonal |
| **Target:** | VGF |
| **Immunogen:** | KLH conjugated synthetic peptide derived from human VGF: 451-550/615 |
| **Purification:** | affinity purified by Protein A |
| **Concentration:** | 1mg/ml |
| **Storage:** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. |
| **Applications:** | IHC-P=1:100-500<br>IHC-F=1:100-500<br>IF=1:100-500 （Paraffin sections need antigen repair）<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Reactivity:** | Rat(predicted:Human,Mouse,Dog,Cow,Horse) |
| **Predicted MW.:** | 65kDa |
| **Subcellular Location:** | cytoplasmic Secretory protein |
| **Background:** | 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<br>**Function:** May be involved in the regulation of cell-cell interactions or in synatogenesis during the maturation of the nervous system.<br>NERP peptides are involved in the control of body fluid homeostasis by regulating vasopressin release.<br>**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. |

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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| | **Tissue Specificity:** Central and peripheral nervous systems, synthesized exclusively in neuronal and neuroendocrine cells.<br>**Post-translational modifications:** Multiple peptides are derived from VGF, with activities in synaptic plasticity, antidepression, penile erection, autonomic activation, and increases in energy expenditure.<br>**Database links:**<br>**Entrez Gene:** 7425 Human<br>**Entrez Gene:** 381677 Mouse<br>**Entrez Gene:** 29461 Rat<br>Omim: 602186 Human<br>**SwissProt:** O15240 Human<br>**SwissProt:** P20156 Rat<br>**Unigene:** 587325 Human |

## [ VALIDATION IMAGES ]



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) instructionsand DAB staining.

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