

Anti-VGF Antibody
Catalog # ABO11292**Specification**

Anti-VGF Antibody - Product Information

Application	WB
Primary Accession	O15240
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Neurosecretory protein VGF(VGF) detection. Tested with WB in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-VGF Antibody - Additional Information

Gene ID 7425

Other Names

Neurosecretory protein VGF, Neuroendocrine regulatory peptide-1, NERP-1, Neuroendocrine regulatory peptide-2, NERP-2, Antimicrobial peptide VGF[554-577], VGF

Calculated MW

67258 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Subcellular Localization

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. .

Protein Name

Neurosecretory protein VGF

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of human VGF(582-600aa QARRAQEEAEAEERRRLQEQ), different from the related rat and mouse sequences by one amino

acid.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Anti-VGF Antibody - Protein Information**Name** VGF**Function**

[Neurosecretory protein VGF]: Secreted polypeptide that is packaged and proteolytically processed by prohormone convertases PCSK1 and PCSK2 in a cell-type-specific manner (By similarity). VGF and peptides derived from its processing play many roles in neurogenesis and neuroplasticity associated with learning, memory, depression and chronic pain (By similarity).

Cellular Location

[Neurosecretory protein VGF]: Secreted. Cytoplasmic vesicle, secretory vesicle. Note=Stored in secretory vesicles and then secreted, NERP peptides colocalize with vasopressin in the storage granules of hypothalamus

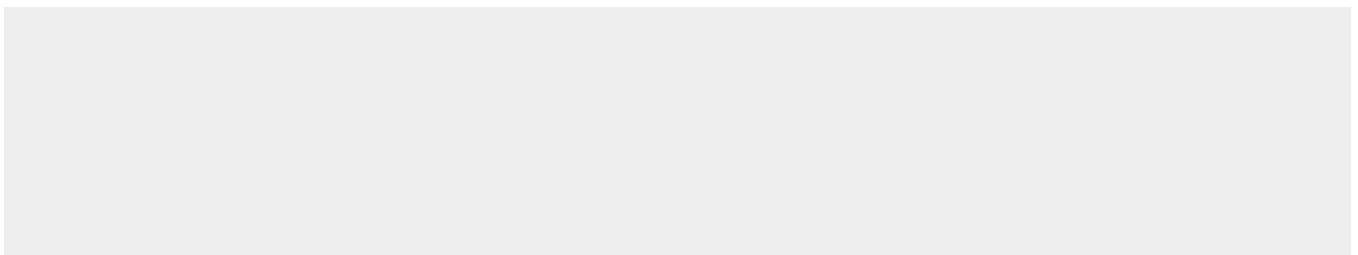
Tissue Location

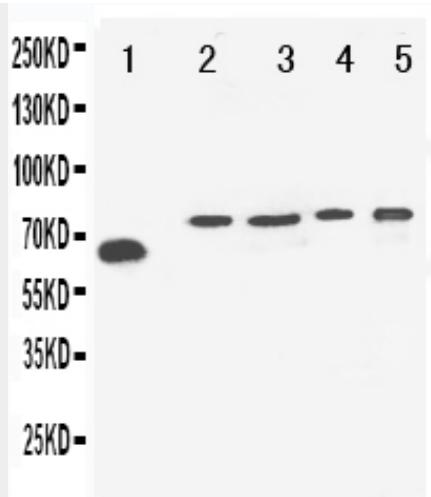
Central and peripheral nervous systems, synthesized exclusively in neuronal and neuroendocrine cells

Anti-VGF Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-VGF Antibody - Images



Anti-VGF antibody, ABO11292, Western blotting
Lane 1: Rat Brain Tissue
Lane 2: U87 Cell Lysate
Lane 3: U87 Cell Lysate
Lane 4: SHG Cell Lysate
Lane 5: NEURO Cell Lysate

Anti-VGF Antibody - Background

VGF(VGF, Nerve Growth Factor-Inducible), is a protein and neuropeptide that may play a role in regulating energy homeostasis, metabolism. Canu et al.(1997) noted that rat Vgf encodes a predicted 70-kD polypeptide that shares similarities with the secretogranin/chromogranin family and is found in the secretory granules of subsets of neurons and endocrine cells. By fluorescence in situ hybridization, Canu et al.(1997) assigned the VGF gene to 7q22. Canu et al.(1997) demonstrated that the single-copy human VGF gene spans 6 kb of genomic DNA and contains 2 exons. The entire VGF protein is encoded by exon 2, while exon 1 contains only 5-prime untranslated sequence. The structural organization of the human gene is similar to that described for the rat VGF gene(Salton et al., 1991), and both the translated and the untranslated regions show a high degree of sequence homology to the rat gene.