

Anti-VGF Antibody

Catalog # ABO11292

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.

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
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. .
Source	Eukaryota
Protein Name	Neurosecretory protein VGF
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg Na ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human VGF(582-600aa QARRAQEEAEAEERRLQEQ), 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.

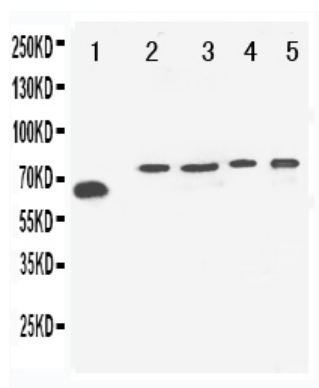
Protein Information

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

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.

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.