

## Product datasheet

# Anti-VGF antibody ab69989

★★★★☆ 1 Abreviews 2 References 4 Images

### Overview

<b>Product name</b>	Anti-VGF antibody
<b>Description</b>	Rabbit polyclonal to VGF
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, IHC-P, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	17 amino acid peptide near the carboxy terminus of the human VGF (GenBank accession no. NP_003369).
<b>Positive control</b>	Human brain tissue lysate

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C.
<b>Storage buffer</b>	Preservative: 0.02% Sodium Azide Constituents: PBS
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

Our [Abpromise guarantee](#) covers the use of **ab69989** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use a concentration of 5 µg/ml.
IHC-P		Use a concentration of 5 µg/ml.
WB	★★★★☆	Use a concentration of 0.5 - 1 µg/ml. Detects a band of approximately 67 kDa (predicted molecular weight: 67 kDa).

## Target

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### Function

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

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

### 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, antidepressant, penile erection, autonomic activation, and increases in energy expenditure.

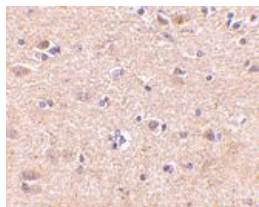
### Cellular localization

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

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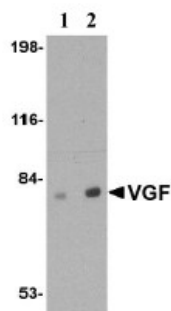
## Images

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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - VGF antibody (ab69989)

ab69989 at 5 µg/ml staining VGF in human brain tissue section by Immunohistochemistry (Formalin/ PFA fixed paraffin-embedded sections).



Western blot - VGF antibody (ab69989)

**Lane 1** : Anti-VGF antibody (ab69989) at 0.5 µg/ml

**Lane 2** : Anti-VGF antibody (ab69989) at 1 µg/ml

**Lane 1** : Human brain tissue lysate

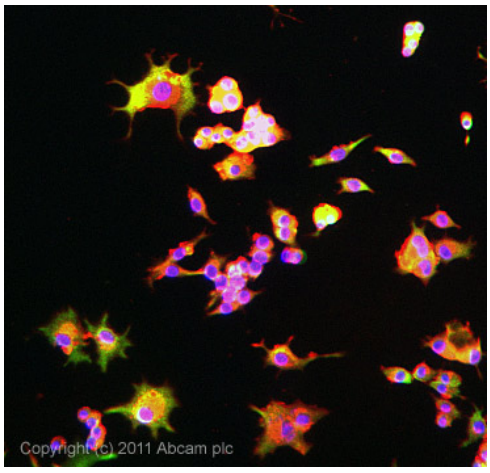
**Lane 2** : Human brain tissue lysate

Lysates/proteins at 15 µg per lane.

**Predicted band size** : 67 kDa

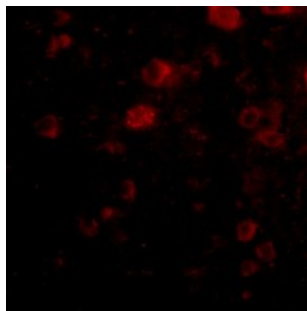
**Observed band size** : 67 kDa

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Immunocytochemistry/ Immunofluorescence-VGF antibody(ab69989)

ICC/IF image of ab69989 stained PC12 cells. The cells were 100% methanol fixed (5 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab69989, 5µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.



Immunocytochemistry/ Immunofluorescence-Anti-VGF antibody(ab69989)

Immunofluorescence of VGF in Human Brain cells using ab69989 at 20 ug/ml.

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