

Datasheet for 600-401-H31**VGF Antibody****Overview**

Description:	Anti-VGF (RABBIT) Antibody - 600-401-H31
Item No.:	600-401-H31
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	VGF antibody detects human VGF. VGF was initially identified as a rapidly regulated gene product in nerve growth factor-treated PC12 cells. This protein is synthesized in neurons in the central and peripheral nervous system as well as in the pituitary, adrenal medulla, endocrine cells of the stomach, and pancreatic beta cells. VGF is thought to be involved in organism energy balance and regulation of homeostasis as mice lacking this gene show deficits in these areas. More recent results suggest that VGF is upregulated by brain-derived neurotrophic factor (BDNF) and can stimulate the proliferation of hippocampal progenitor cells and produce antidepressant-like behavioral effects, suggesting that this pathway may be a suitable target for therapeutic treatments. Anti-VGF antibodies are ideal for investigators involved in neuroscience and transcription factor research.
Synonyms:	Neurosecretory protein VGF, VGF nerve growth factor inducible
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	VGF
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	VGF Antibody was produced from whole rabbit serum prepared by repeated immunizations with a peptide near the c-terminus of the human VGF.
Purity/Specificity:	Anti-VGF Antibody was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest cross-reactivity with VGF with Human, Rat and Mouse based on 100% homology with the immunizing sequence. Cross-reactivity with VGF from other sources has not been determined.
Relevant Links:	• NCBI - NP_003369 • UniProtKB - O15240 • GeneID - 7425

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-VGF Antibody is tested for use in E, WB, IF, and IHC. Expect a band approximately ~67.2kDa on specific lysates. Western Blot, Immunohistochemistry, and Immunofluorescence tested in human samples. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IF:	20µg/mL
IHC:	5µg/mL
WB:	1-2µg/mL

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

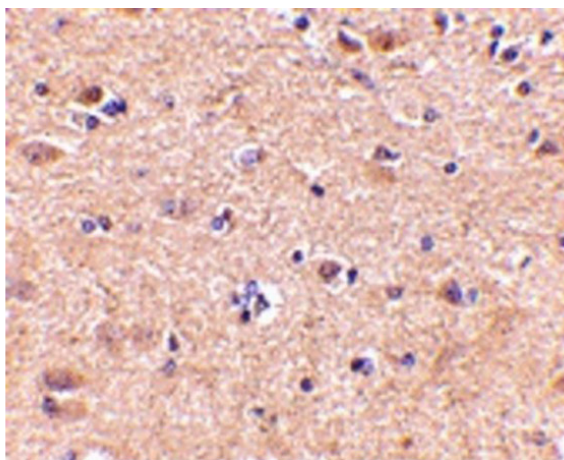
Shipping & Handling

Shipping Condition:	Wet Ice
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Storage Condition: Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.

Expiration: Expiration date is one (1) year from date of receipt.

Images

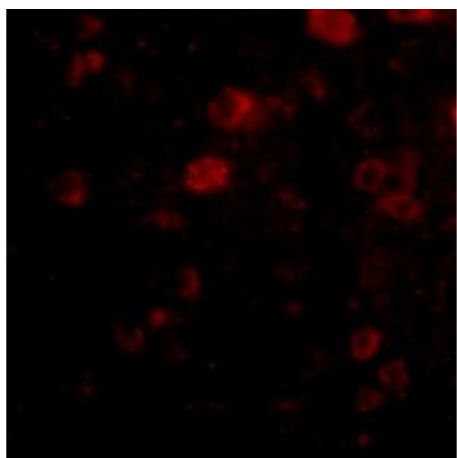


Immunohistochemistry

Immunohistochemistry of VGF.

Tissue: human brain.

Primary Antibody: Anti-VGF antibody at 5 µg/mL.

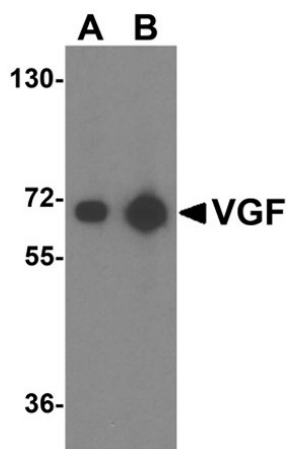


Immunofluorescence Microscopy

Immunofluorescence of VGF.

Cell: Human Brain cells.

Primary Antibody: Anti-VGF antibody at 20 µg/mL.

**Western Blot**

Western blot of VGF.

Load: human brain tissue lysate.

Primary Antibody: Anti-VGF antibody at (A) 1 μ g/ml and (B) 2 μ g/ml.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.