

## Product datasheet for **TA306578**

### VGF Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 0.5 - 1 ug/mL, ICC: 5 ug/mL, IF: 20 ug/mL
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	VGF antibody was raised against a 17 amino acid synthetic peptide near the carboxy terminus of the human VGF. The immunogen is located within the last 50 amino acids of VGF.
Formulation:	PBS containing 0.02% sodium azide.
Purification:	Affinity chromatography purified via peptide column
Conjugation:	Unconjugated
Storage:	Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	VGF nerve growth factor inducible
Database Link:	<a href="#">NP_003369</a> <a href="#">Entrez Gene 29461 Rat</a> <a href="#">Entrez Gene 381677 Mouse</a> <a href="#">Entrez Gene 7425 Human</a> <a href="#">O15240</a>
Background:	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.

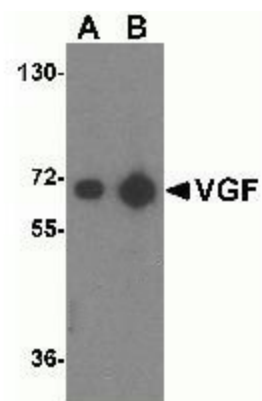


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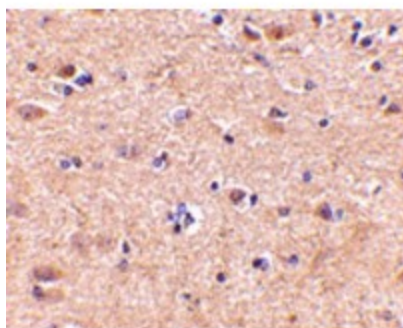
Synonyms: SCG7; SgVII

Protein Families: Secreted Protein

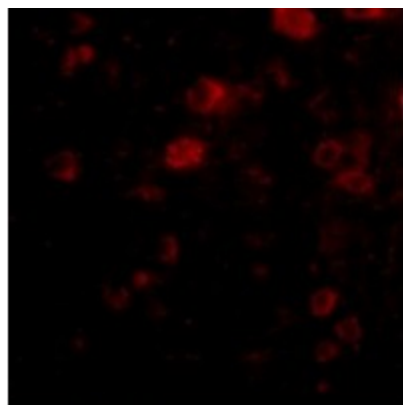
### Product images:



Western blot analysis of VGF expression in human brain tissue lysate with VGF antibody at (A) 1 and (B) 2ug/ml.



Immunohistochemistry of VGF in human brain with VGF antibody at 5ug/ml.



Immunofluorescence of VGF in Human Brain cells with VGF antibody at 20ug/ml.