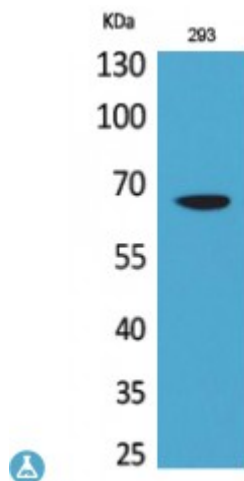


Anti-VGF antibody



Description

VGF is a protein encoded by the VGF gene which is approximately 67,2 kDa. VGF is secreted and is involved in growth factor activity and neuropeptide hormone activity. VGF is specifically expressed in a subpopulation of neuroendocrine cells, and is upregulated by nerve growth factor. It may be involved in the regulation of cell-cell interactions or in synaptogenesis during the maturation of the nervous system. VGF is expressed in the central and peripheral nervous systems, it is synthesized exclusively in neuronal and neuroendocrine cells. Mutations in the VGF gene may result in pulmonary large cell Neuroendocrine Carcinoma and Pheochromocytoma. STJ96661 was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. This polyclonal antibody detects endogenous levels of VGF protein.

Model	STJ96661
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	ELISA, IHC, WB
Immunogen	Synthesized peptide derived from human VGF.
Immunogen Region	441-490 aa, Internal
Gene ID	7425
Gene Symbol	VGF
Dilution range	WB 1:500-1:2000IHC-P 1:100-1:300ELISA 1:20000
Specificity	VGF Polyclonal Antibody detects endogenous levels of VGF protein.
Tissue Specificity	Central and peripheral nervous systems, synthesized exclusively in neuronal

and neuroendocrine cells.

Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Neurosecretory protein VGF Neuroendocrine regulatory peptide-1 NERP-1 Neuroendocrine regulatory peptide-2 NERP-2 Antimicrobial peptide VGF 554-577
Molecular Weight	67 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:12684 OMIM:602186
Alternative Names	Neurosecretory protein VGF Neuroendocrine regulatory peptide-1 NERP-1 Neuroendocrine regulatory peptide-2 NERP-2 Antimicrobial peptide VGF 554-577
Function	May be involved in the regulation of cell-cell interactions or in synatogenesis during the maturation of the nervous system. NERP peptides are involved in the control of body fluid homeostasis by regulating vasopressin release. Antimicrobial peptide VGF[554-577]: Has bactericidal activity against <i>M. luteus</i> , and antifungal activity against <i>P. Pastoris</i> .
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.
Post-translational Modifications	Multiple peptides are derived from VGF, with activities in synaptic plasticity, antidepressant, penile erection, autonomic activation, and increases in energy expenditure.