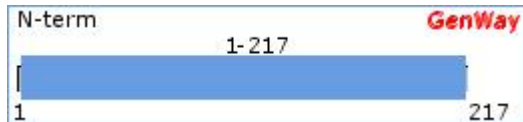


Somatotropin, Antibody



Growth hormone, GH, GH-N, Pituitary growth hormone, Growth hormone 1

Catalog Number: 15-288-10062F	
SwissProt Accession #:	P01241 SOMA_HUMAN
NCBI Accession #:	NP_000506.2 GI #: 13027812
Immunogen Sequence Position:	Length (aa): 217
1-217	
Mol. Weight (Da):	24847



Linear Protein Map with Immunogenic Epitope Marked (sequence source from above GI#)

Source: Chicken

Purity: Immunoaffinity Purified

Clonality: Polyclonal

Crossreactivity: Human, mouse, rat (Based on protein sequence homology)

Format: Phosphate-Buffered Saline. No preservatives added.

Storage: 4°C for short term (weeks) and -20°C for long term. Avoid frequent freeze and thaw.

Stability: 6-12 months at -20°C.

Shipping: Products may be shipped on ice pack.

Precautions: This product is for *in vitro* research use only. Not for use in diagnostic or therapeutic procedures.

Important Notes: During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.

APPLICATIONS:	
ELISA, Western Blot	Tested
ICC, IHC	Not Tested

TESTING: (secondary reagents and protocols)
ELISA: Recombinant protein as test antigen. Affinity-Purified anti-hGH IgY as 1st antibody (0.1 ug/ml), and Rabbit anti-IgY-HRP as 2nd antibody.

TARGET DESCRIPTION:

FUNCTION: Plays an important role in growth control. Its major role in stimulating body growth is to stimulate the liver and other tissues to secrete IGF-1. It stimulates both the differentiation and proliferation of myoblasts. It also stimulates amino acid uptake and protein synthesis in muscle and other tissues.

DISEASE: Defects in GH1 are a cause of isolated growth hormone deficiency type II (IGHD II) [MIM: 173100]. IGH2 is an autosomal dominant deficiency of GH which causes short stature.

OMIM: 139250; gene+phenotype. [NCBI / EBI]
262400; phenotype. [NCBI / EBI]
262650; phenotype. [NCBI / EBI]
173100; phenotype. [NCBI / EBI]

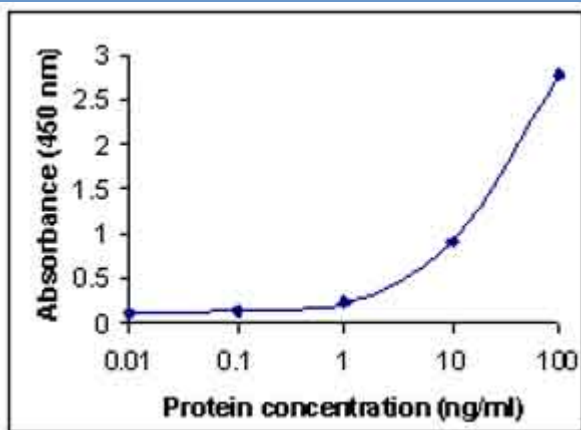
CATEGORIES RELATED TO TARGET PROTEIN:

TISSUES: Pituitary, Hypothalamus, Forebrain, Diencephalon, Serum, Plasma, Thyroid, Brain Tumor, Pituitary Tumor, Pituitary Adenoma, Tumor Cells, Intracellular, Heart, Urine, Adipose Tissue, White Adipose Tissue, Cytoplasm, Cell Surface, Gonad, Blood Cells

more... Nucleus, Urinary Tract, Peripheral Blood, Ovary, Pancreas, Gastrocnemius, Leukocyte, Soleus Muscle, Skeletal Muscle, Adrenal Gland, Lymphocytes, Gastrointestinal Tract, Plasma Membrane, Fibroblast, Adrenal Cortex, Parathyroid, Mammary Glands, Intestine, Testis, Blood Vessels, Neuron, Placenta, Pancreatic Islets, Brain Cortex, Chromosomes, Calvaria, Eye, Artery, Hepatocytes, Neonatal Brain, Thymus, Fetal Brain, Fetal Serum, Forebrain Cortex, Spleen, Myocardium, Vein, Cardiac Muscle, Mammary Tumor, Heart Muscle, Tibial Bone, T-Cell, Telencephalon, Adipocyte, Small Intestine, Mucosa, Ovarian Follicle, Mammary Cancer, Bone Marrow, Endoplasmic Reticulum, Lymphoma, Uterus, Granulocyte, Erythrocyte, Pancreatic Cancer, Melanocyte, Prostate, Femur, Posterior Pituitary, Platelet, Macrophage, Cerebrospinal Fluid, Embryonic Brain, Fetal Liver, Growth Plate, Monocytes, Inclusion, Fetal Blood, Phospholipids, Umbilical Cord Blood

PROTEIN FUNCTIONS: Pituitary Hormones, Protein Biosynthesis, Insulin, Pancreatic Hormones, Gonadotropins, Hypothalamic Hormones, C21-Steroid Hormone Metabolism, Receptors, Peptide, Fatty Acid Metabolism, Serum Globulins, Cytokines, Immunoglobulins, Receptors, G-Protein-Coupled, G-Protein Coupled Receptors, Phosphotransferases, Tyrosine Metabolism, Placental Hormones, Blood Coagulation Factors, Cell Division, Peptide Hydrolases

more... Esterases, Nitrogen Metabolism, Biosynthesis Of Steroids, Gastrointestinal Hormones, Neuroectodermal Tumors, Phenylalanine Metabolism, Leptin, Oncogene Proteins, Interleukins, Corticotropin-Releasing Hormone, Antigens, Surface, Muscle Proteins, Acute-Phase Proteins, Viral Regulatory Proteins, Membrane Glycoproteins, Phosphatidylinositol Signaling System, Acid Anhydride Hydrolases, Adaptor Proteins, Signal Transducing, Pyrimidine Metabolism, Receptors, Immunologic, Insulin Signaling Pathway, Receptors, Steroid, Fatty Acid Biosynthesis, Purine Metabolism, Androgen And Estrogen



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Western Blot: hGH recombinant protein as antigen. Anti-hGH IgY dilution: 1:2000; Goat anti-IgY Fc-HRP: 1:1,000. Colorimetric method for signal development.



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Metabolism, Calcium-Binding Proteins, Tumor Markers, Biological, Antigens, Differentiation, Alcohol Oxidoreductases, Receptors, Cytokine, Cytokine Receptors, Hematopoietic Cell Growth Factors, Tryptophan Metabolism, Colony-Stimulating Factors, Nucleotide Sugars Metabolism, Glutamate Metabolism, Tumor Necrosis Factors, Gtp-Binding Proteins, Pyruvate Metabolism, Neoplasms, Neuroepithelial, Lysine Degradation, Glycosyltransferases, Ion Channels, Histidine Metabolism, Cysteine Metabolism, Translation Factors, Microfilament Proteins, Glycosaminoglycan Degradation, Serpins, Basal Transcription Factors, Lipoproteins, Ldl, Homeodomain Proteins, Glutathione Metabolism, Lipoproteins, Hdl, Mitogen-Activated Protein Kinases, Ribosome, Sulfur Metabolism, Bacterial Toxins, Alkaloid Biosynthesis I, Luciferases, Retinol Metabolism, Terpenoid Biosynthesis, Ligases, Inositol Metabolism, Cell Adhesion Molecules (Cams), Antigens, Neoplasm, Synaptic Transmission, Angiogenic Proteins, Glycolysis, Proto-Oncogene Proteins C-Fos

DISEASES: Benign Tumor, Bone Diseases, Metabolic Diseases, Endocrine, Brain Tumor, Pituitary Tumor, Pituitary Adenoma, Pregnancy, Diabetes Mellitus, Mental Disorders, Obesity, Birth Defects, Autoimmune Disease, Depression, Insulin Dependent Diabetes Mellitus, Type 1 Diabetes Mellitus, Germ Cell Tumors, Type 2 Diabetes, Hyperglycaemia, Hypothyroid more... Juvenile Diabetes, Heart Disease, Kidney Failure, Chronic Renal Insufficiency, Eye Diseases, Escherichia Coli, Leukemia, Cushing's Syndrome, Cushing's Syndrome, Blood Diseases, Osteoporosis, Lung Diseases, Viral Diseases, Adenocarcinoma, Lymphadenopathy, Breast Cancer, Hormonal Disorders, Syndrome X, Hemodialysis, Dementia, Menopause, Retinopathy, Breast Tumor, Connective Tissue Diseases, Acidosis, Cirrhosis, Lymphoma, Anxiety, Joint Diseases, Pancreatic Cancer, High Blood Pressure, Ischaemic Heart Disease, Fungi, Arthritis, Schizophrenia, Transmissible Spongiform Encephalopathies, Rheumatic Diseases, Hyperlipidemia, Liver Cancer, AIDS, Sepsis, Lung Cancer, Gliomas, Lung Tumor, Osteogenesis, Human Immunodeficiency Virus, Cerebrovascular Disease, Immune Deficiency, Prostate Cancer, Parkinson's, Parkinson's Disease, Hypoxia, Neck Cancer, Hepatitis, Adrenal Failure, Coronary Heart Disease, Arteriosclerosis, Stroke, Myocardial Infarction, Oedema, Metastasis, Allergy, Bipolar Disorder, Hemolytic Anemia, Immunosuppression, Diabetic Kidney Disease, Ketoacidosis, Peritoneal Dialysis, Respiratory Diseases, Septicaemia

BACKGROUND REFERENCES:

- [1] Saboury,A.A., et al. Effects of calcium binding on the struct...
- [2] Yang,Z.W., et al. Effects of recombinant human growth horm...
- [3] Jeschke,M.G., et al. The effect of growth hormone on gut muco...
- [4] Kouadio,J.L., et al. Shotgun alanine scanning shows that grow...
- [5] Premoli,A.C., et al. Growth hormone secretion and insulin-lik...

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