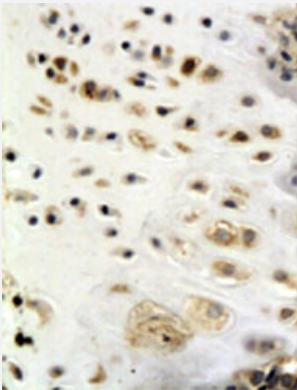


IGF1 polyclonal antibody

Catalog # PAB16614 Size 100 ug

Applications



Immunohistochemistry

Immunohistochemical analysis of IGF1 expression in NZ rabbit knee joint tissue. IGF1 polyclonal antibody (Cat ID # PAB16614) was used as primary antibody, dilution 1 : 200.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic protein of IGF1.
Immunogen	Synthetic protein corresponding to IGF1.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Form	Lyophilized
Purification	Protein G affinity chromatography
Isotype	IgG
Recommend Usage	ELISA (1-2 ug/mL) Immunohistochemistry (2-10 ug/mL) Western Blot (0.1-0.2 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from TBS, pH 7.4.

Storage Instruction

Store at -20°C on dry atmosphere.

After reconstitution with PBS pH 7.4 or other diluents (such as distilled water), store at 2-8°C for one month, or at -20°C for six months without detectable loss of activity.

Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot

- Immunohistochemistry

Immunohistochemical analysis of IGF1 expression in NZ rabbit knee joint tissue. IGF1 polyclonal antibody (Cat ID # PAB16614) was used as primary antibody, dilution 1 : 200.

- Enzyme-linked Immunoabsorbent Assay

Gene Info — IGF1

Entrez GeneID [3479](#)

Protein Accession# [P01343](#)

Gene Name IGF1

Gene Alias IGF1

Gene Description insulin-like growth factor 1 (somatomedin C)

Omim ID [147440 608747](#)

Gene Ontology [Hyperlink](#)

Gene Summary The protein encoded by this gene is similar to insulin in function and structure and is a member of a family of proteins involved in mediating growth and development. The encoded protein is processed from a precursor, bound by a specific receptor, and secreted. Defects in this gene are a cause of insulin-like growth factor I deficiency. Several transcript variants encoding different isoforms have been found for this gene

Other Designations insulin-like growth factor 1|somatomedin C

Publication Reference

- [Hypoactivity Affects IGF-1 Level and PI3K/AKT Signaling Pathway in Cerebral Structures Implied in Motor Control.](#)

Mysoet J, Canu MH, Cieniewski-Bernard C, Bastide B, Dupont E.

PloS One 2014 Sep; 9(9):e107631.

Application: WB, Rat, Plasma

- [IGF-I lucidity ... the murky waters begin to clear?](#)

Spangenburg EE.

Journal of Applied Physiology 2010 Mar; 108(5):1032.

- [A significant decline in IGF-I may predispose young Africans to subsequent cardiometabolic vulnerability.](#)

Schutte AE, Huisman HW, van Rooyen JM, Malan L, Malan NT, Fourie CM, Louw R, van der Westhuizen FH, Schutte R.

The Journal of Clinical Endocrinology and Metabolism 2010 Mar; 95(5):2503.

- [Mechano-transduction in osteoblastic cells involves strain-regulated estrogen receptor alpha-mediated control of insulin-like growth factor \(IGF\) I receptor sensitivity to Ambient IGF, leading to phosphatidylinositol 3-kinase/AKT-dependent Wnt/LRP5 receptor-independent activation of beta-catenin signaling.](#)

Sunters A, Armstrong VJ, Zaman G, Kypka RM, Kawano Y, Lanyon LE, Price JS.

The Journal of Biological Chemistry 2009 Dec; 285(12):8743.

Pathway

- [Focal adhesion](#)
- [Glioma](#)
- [Hypertrophic cardiomyopathy \(HCM\)](#)
- [Long-term depression](#)
- [Melanoma](#)
- [mTOR signaling pathway](#)
- [p53 signaling pathway](#)
- [Pathways in cancer](#)
- [Prostate cancer](#)

Disease

- [Abortion](#)
- [Adenocarcinoma](#)
- [Adenoma](#)
- [Albuminuria](#)
- [Alzheimer disease](#)
- [Anorexia Nervosa](#)
- [Arteriosclerosis](#)
- [Asperger Syndrome](#)
- [Atherosclerosis](#)
- [Autistic Disorder](#)
- [Barrett Esophagus](#)
- [Birth Weight](#)
- [Body Weight](#)
- [Bone Diseases](#)
- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Breast Diseases](#)
- [Breast Neoplasms](#)
- [Bronchopulmonary Dysplasia](#)
- [Bulimia](#)
- [Calcinosis](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Cerebrovascular Accident](#)

- [Chorioamnionitis](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)
- [Colonic Polyps](#)
- [Colorectal Neoplasms](#)
- [Connective Tissue Diseases](#)
- [Coronary Artery Disease](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Diabetic Retinopathy](#)
- [Disease Progression](#)
- [Drug Toxicity](#)
- [Ductus Arteriosus](#)
- [Dwarfism](#)
- [Edema](#)
- [Esophageal Neoplasms](#)
- [Esophagitis](#)
- [Fetal Diseases](#)
- [Fetal Growth Retardation](#)
- [Fetal Membranes](#)
- [Fractures](#)
- [Genetic Predisposition to Disease](#)
- [Glucose Intolerance](#)
- [Growth Disorders](#)
- [Hepatitis](#)
- [Hip Fractures](#)

- [Hypercholesterolemia](#)
- [Hyperplasia](#)
- [Hypertension](#)
- [Hypertrophy](#)
- [Infant](#)
- [Infection](#)
- [Inflammation](#)
- [Insulin Resistance](#)
- [Kidney Failure](#)
- [Laron Syndrome](#)
- [Liver Cirrhosis](#)
- [Liver Neoplasms](#)
- [Lung Neoplasms](#)
- [Lymphoma](#)
- [Malignant melanoma](#)
- [Melanoma](#)
- [Metabolic Syndrome X](#)
- [Metaplasia](#)
- [Microsatellite Instability](#)
- [Multiple Myeloma](#)
- [Muscular Diseases](#)
- [Musculoskeletal Diseases](#)
- [Myocardial Infarction](#)
- [Myopia](#)
- [Neoplasm Invasiveness](#)
- [Neoplasm Metastasis](#)

- [Neoplasms](#)
- [Obesity](#)
- [Obstetric Labor](#)
- [Osteoarthritis](#)
- [Osteoporosis](#)
- [Ovarian cancer](#)
- [Ovarian Failure](#)
- [Ovarian Neoplasms](#)
- [Pain](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Polycystic Ovary Syndrome](#)
- [Pre-Eclampsia](#)
- [Pregnancy Complications](#)
- [Premature Birth](#)
- [Prostate cancer](#)
- [Prostatic Hyperplasia](#)
- [Prostatic Neoplasms](#)
- [Puberty](#)
- [Pulmonary Disease](#)
- [Rectal Neoplasms](#)
- [Retinopathy of Prematurity](#)
- [Scoliosis](#)
- [Shoulder Fractures](#)
- [Skin Diseases](#)

- [Social Perception](#)
- [Subarachnoid Hemorrhage](#)
- [Testicular Neoplasms](#)
- [Thrombophilia](#)
- [Thyroid Diseases](#)
- [Tobacco Use Disorder](#)
- [Urinary Bladder Neoplasms](#)
- [Weight Gain](#)
- [Werner syndrome](#)
- [Wrist Injuries](#)