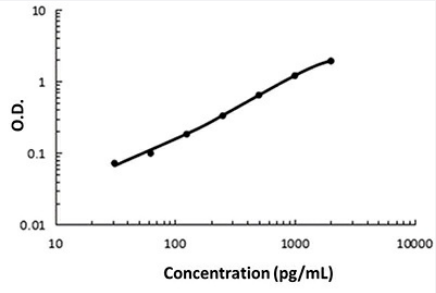
IL18 (Human) ELISA Kit

Catalog # KA0561 Size 1 Kit

Applications



The standard curve is for the purpose of illustration only and should not be used to calculate unknowns. A standard curve should be generated each time the assay is performed.

Specification

Product Description	IL18 (Human) ELISA Kit is a sandwich enzyme immunoassay for the quantitative measurement of human IL18.
Suitable Sample	Cell Culture Supernatant, Cell Lysates, Plasma (EDTA, Heparin), Serum
Sample Volume	100 uL
Label	HRP-conjugated
Detection Method	Colorimetric
Assay Type	Quantitative
Calibration Range	31.2 to 2000 pg/mL
Reactivity	Human
Regulation Status	For research use only (RUO)
Storage Instruction	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles.

Applications

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- Quantification

Gene Info — IL18

Entrez GeneID	3606
Gene Name	IL18
Gene Alias	IGIF, IL-18, IL-1g, IL1F4, MGC12320
Gene Description	interleukin 18 (interferon-gamma-inducing factor)
Omim ID	600953
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a proinflammatory cytokine. This cytokine can induce the IFN-gamma production of T cells. The combination of this cytokine and IL12 has been shown to inhibit IL4 dependent IgE and IgG1 production, and enhance IgG2a production of B cells. IL-18 binding p rotein (IL18BP) can specifically interact with this cytokine, and thus negatively regulate its biologic al activity. [provided by RefSeq
Other Designations	IL-1 gamma|interferon-gamma-inducing factor|interleukin 18|interleukin-1 gamma|interleukin-18

Publication Reference

- Identification of IL18/IL18R1 signaling as predictive biomarker of SGLT2 inhibitor efficacy in type 2 diabetes.

  I-Jou Teng, Chien-Hsing Lee, Ying-Chen Chen, Sheng-Chiang Su, Chieh-Hua Lu, Peng-Fei Li, Chia-Luen Huang, Li-Ju Ho, Ming-Hsun Lin, Hsin-Ya Liu, Feng-Chih Kuo.

  iScience 2025 Oct; 28(10):113594.

  Application: Quant, Human, Plasma

- Okanin Inhibits Cell Growth and Induces Apoptosis and Pyroptosis in Oral Cancer.

  Wei-Tso Chia, Kuei-Yuan Chen, Cheng-Yu Yang, Cheng-Chih Hsieh, Chang-Huei Tsao, Chih-Kung Lin, Bo Peng, Sien-Lin Ho, Yi-Ling Chen, Szu-Chien Chang, Yuan-Wu Chen

  Cancers (Basel) 2024 Sep; 16(18).

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- Diagnostic Evaluation Using Salivary Gland Ultrasonography in Primary Sjögren's Syndrome.

  Yen-Fu Chen, Ao-Ho Hsieh, Yao-Fan Fang, Chang-Fu Kuo.

  Journal of Clinical Medicine 2023 Mar; 12(6):2428.

  Application: Quant, Human, Human serum

- IFN-γ and IL-18 in conditioned media of parasite-infected host and IL-21-silenced colorectal cancer cells.

  Peng Ge, Ching Yi Ong, Abdalla Eshtiyag Abdalkareem, Boon Yin Khoo, Bo Yuan.

  Experimental and Therapeutic Medicine 2021 Feb; 21(2):103.

  Application: Quant, Human, HCT-116 cells, Human foreskin fibroblasts

- Global analysis of differential gene expression related to long-term sperm storage in oviduct of Chinese Soft-Shelled Turtle Pelodiscus sinensis.

  Tengfei Liu, Ping Yang, Hong Chen, Yufei Huang, Yi Liu, Yasir Waqas, Nisar Ahmed, Xiaoya Chu, Qiusheng Chen

  Sci Rep 2016 Sep; 6:33296.

- CD24 activates the NLRP3 inflammasome through c-Src kinase activity in a model of the lining epithelium of inflamed periodontal tissues.

  Guo W, Ye P, Yu H, Liu Z, Yang P, Hunter H.

  Immunity, Inflammation and Disease 2014 Dec; 2(4):239.

  Application: ELISA, Human, Porphyromonas gingivalis culture, H413 cells

- Interleukin-18 regulates acute graft-versus-host disease by enhancing Fas-mediated donor T cell apoptosis.

  Reddy P, Teshima T, Kukuruga M, Ordemann R, Liu C, Lowler K, Ferrara JL.

  The Journal of Experimental Medicine 2001 Nov; 194(10):1433.

- Expression of interleukin-18 in human atherosclerotic plaques and relation to plaque instability.

  Mallat Z, Corbaz A, Scoazec A, Besnard S, Lesèche G, Chvatchko Y, Tedgui A.

  Circulation 2001 Aug; 104(14):1598.

- Cloning of a new cytokine that induces IFN-gamma production by T cells.

  Okamura H, Tsutsi H, Komatsu T, Yutsudo M, Hakura A, Tanimoto T, Torigoe K, Okura T, Nukada Y, Hattori K, et al..

  Nature 1995 Nov; 378(6552):88.

Pathway

- Cytokine-cytokine receptor interaction

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Disease

- Abortion
- Acute Lung Injury
- Adenocarcinoma
- Aggressive Periodontitis
- Alzheimer disease
- Arthritis
- Asthma
- Atherosclerosis
- Atrial Fibrillation
- Autoimmune Diseases
- Behcet Syndrome
- Brain Ischemia
- Breast cancer
- Breast Neoplasms
- Bronchial Hyperreactivity
- Bronchiolitis
- Carcinoma
- Cardiovascular Diseases
- Celiac Disease
- Chorioamnionitis
- Choriocarcinoma
- Choroidal Neovascularization
- Chronic Periodontitis
- Cognition Disorders

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- Colitis
- Colorectal Neoplasms
- Connective Tissue Diseases
- Coronary Artery Disease
- Coronary Disease
- Crohn Disease
- Death
- Dermatitis
- Diabetes Complications
- Diabetes Mellitus
- Disease Progression
- Duodenal Ulcer
- Dyspepsia
- Edema
- Endometriosis
- Endotoxemia
- Epstein-Barr Virus Infections
- Esophageal Neoplasms
- Fetal Diseases
- Fetal Membranes
- Gastrointestinal Neoplasms
- Genetic Predisposition to Disease
- Giant Cell Arteritis
- Gingivitis
- Glomerulonephritis
- Graft vs Host Disease

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- Graves Disease
- Graves Ophthalmopathy
- Head and Neck Neoplasms
- Heart Diseases
- Helicobacter Infections
- Hematologic Diseases
- Hemophilia A
- Hepatitis B
- Hepatitis C
- HIV Infections
- HIV-Associated Lipodystrophy Syndrome
- Hodgkin Disease
- Hydatidiform Mole
- Hypersensitivity
- Hypertension
- Infant
- Infection
- Inflammation
- Inflammatory Bowel Diseases
- Insulin Resistance
- Intracranial Arteriosclerosis
- Kidney Calculi
- Kidney Failure
- Kidney Neoplasms
- Latex Hypersensitivity
- Leiomyoma

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- Lichen Planus
- Liver Neoplasms
- Lung Neoplasms
- Lupus Erythematosus
- Lupus Nephritis
- Lymphadenitis
- Lymphoma
- Lymphoproliferative Disorders
- Macular Degeneration
- Metabolic Syndrome X
- Metaplasia
- Mouth Neoplasms
- Mucocutaneous Lymph Node Syndrome
- Multiple Myeloma
- Musculoskeletal Diseases
- Mycobacterium Infections
- Myocardial Infarction
- Nasopharyngeal Neoplasms
- Neoplasms
- Obesity
- Obstetric Labor
- Occupational Diseases
- Osteoporosis

- Ovarian cancer
- Ovarian Neoplasms

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- Pain
- Pancreatic cancer
- Pancreatic Neoplasms
- Periodontitis
- Pneumoconiosis
- Postoperative Complications
- Precancerous Conditions
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Prostate cancer
- Prostatic Neoplasms
- Proteinuria
- Pulmonary Disease
- Purpura
- Recurrence
- Respiratory Syncytial Virus Infections
- Retinal Vein Occlusion
- Rhinitis
- Sarcoidosis
- Schistosomiasis mansoni
- Schizophrenia
- Skin Diseases
- Stomach Neoplasms
- Stomach Ulcer
- Stroke

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- Substance Abuse
- Thyroid Diseases
- Tuberculosis
- Uterine Cervical Neoplasms
- Uterine Neoplasms
- Uveitis
- Vasculitis
- Waldenstrom Macroglobulinemia
- Werner syndrome
- Wounds and Injuries

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