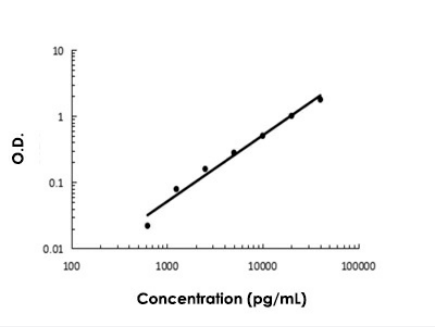
MMP2 (Human) ELISA Kit

Catalog # KA0391 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	MMP2 (Human) ELISA Kit is a sandwich enzyme immunoassay for the quantitative measurement of human MMP2.
Suitable Sample	Cell Culture Supernatant, Plasma (Heparin), Serum
Sample Volume	100 uL
Label	HRP-conjugated
Detection Method	Colorimetric
Assay Type	Quantitative
Calibration Range	625 to 40000 pg/mL
Reactivity	Human
Regulation Status	For research use only (RUO)
Quality Control Testing	Standard curve 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.
Storage Instruction	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles.

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Applications

- Quantification

Gene Info — MMP2

Entrez GeneID	4313
Gene Name	MMP2
Gene Alias	CLG4, CLG4A, MMP-II, MONA, TBE-1
Gene Description	matrix metallopeptidase 2 (gelatinase A, 72kDa gelatinase, 72kDa type IV collagenase)
Omim ID	120360 277950 605156
Gene Ontology	Hyperlink
Gene Summary	Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. This gene encodes an enzyme which degrades type IV collagen, the major structural component of basement membranes. The enzyme plays a role in endometrial menstrual breakdown, regulation of vascularization and the inflammatory response. Mutations in this gene have been associated with Winchester syndrome and Nodulosis-Arthropathy-Osteolysis (NAO) syndrome. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq
Other Designations	collagenase type IV-A|matrix metalloproteinase 2|matrix metalloproteinase-II|neutrophil gelatinase

Publication Reference

- The Combination of Sulforaphane and FernblockR XP Improves Individual Beneficial Effects in Normal and Neoplastic Human Skin Cell Lines.

  Simona Serini, Roberta Guarino, Renata Ottes Vasconcelos, Leonardo Celleno, Gabriella Calviello

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- Dextran-shelled oxygen-loaded nanodroplets reestablish a normoxia-like pro-angiogenic phenotype and behavior in hypoxic human dermal microvascular endothelium.

  Basilico N, Magnetto C, D'Alessandro S, Panariti A, Rivolta I, Genova T, Khadjavi A, Gulino GR, Argenziano M, Soster M, Cavalli R, Giribaldi G, Guiot C, Prato M.

  Toxicology and Applied Pharmacology 2015 Nov; 288(3):330.

  Application: ELISA, Human, HMEC-1 cells

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- Intronic regulation of matrix metalloproteinase-2 revealed by in vivo transcriptional analysis in ischemia.

  Lee JG, Dahi S, Mahimkar R, Tulloch NL, Alfonso-Jaume MA, Lovett DH, Sarkar R.

  PNAS 2005 Nov; 102(45):16345.

- Structure of human pro-matrix metalloproteinase-2: activation mechanism revealed.

  Morgunova E, Tuuttila A, Bergmann U, Isupov M, Lindqvist Y, Schneider G, Tryggvason K.

  Science 1999 Jun; 284(5420):1667.

- Completion of the primary structure of the human type IV collagenase preproenzyme and assignment of the gene (CLG4) to the q21 region of chromosome 16.

  Huhtala P, Eddy RL, Fan YS, Byers MG, Shows TB, Tryggvason K.

  Genomics 1990 Mar; 6(3):554.

Pathway

- Bladder cancer
- GnRH signaling pathway
- Leukocyte transendothelial migration
- Pathways in cancer

Disease

- Acute Disease
- Adenocarcinoma
- Alzheimer disease
- Aortic Aneurysm
- Arthritis
- Atherosclerosis
- Atrial Fibrillation
- Breast cancer

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- Breast Neoplasms
- Bronchopulmonary Dysplasia
- Carcinoma
- Cardiac Output
- Cardiovascular Diseases
- Carotid Artery Diseases
- Carotid Stenosis
- Cervical Intraepithelial Neoplasia
- Chorioamnionitis
- Chronic Disease
- Cleft Lip
- Cleft Palate
- Colitis
- Colorectal Neoplasms
- Connective Tissue Diseases
- Constriction
- Coronary Aneurysm
- Coronary Artery Disease
- Coronary Disease
- Crohn Disease
- Diabetes Complications
- Diabetes Mellitus
- Diabetic Angiopathies
- Diabetic Retinopathy
- Disease
- Disease Progression

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- Disease Susceptibility
- Edema
- Endometrial Neoplasms
- Endometriosis
- Esophageal Neoplasms
- Exfoliation Syndrome
- Fetal Diseases
- Fetal Growth Retardation
- Fetal Membranes
- Fractures
- Genetic Predisposition to Disease
- Glaucoma
- Graft Occlusion
- Head and Neck Neoplasms
- Heart Failure
- Helicobacter Infections
- Hepatitis C
- Hypersensitivity
- Hypertension
- Hypertrophy
- Infection
- Inflammation
- Intervertebral Disk Displacement
- Intracranial Aneurysm
- Kidney Failure

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- Liver Cirrhosis
- Liver Neoplasms
- Lung Neoplasms
- Lymphoma
- Macular Degeneration
- Malignant melanoma
- Melanoma
- Metabolic Syndrome X
- Metaplasia
- Mouth Neoplasms
- Mucocutaneous Lymph Node Syndrome
- Multiple Sclerosis
- Musculoskeletal Diseases
- Myocardial Infarction
- Myopia
- Nasal Polyps
- Nasopharyngeal Neoplasms
- Neoplasm
- Neoplasm Invasiveness
- Neoplasm Metastasis
- Neoplasms
- Neovascularization
- Obstetric Labor
- Oral Submucous Fibrosis
- Osteoarthritis
- Osteolysis

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- Osteoporosis
- Ovarian cancer
- Ovarian Neoplasms
- Parapsoriasis
- Periodontitis
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Prostate cancer
- Prostatic Neoplasms
- Prosthesis-Related Infections
- Psoriasis
- Pulmonary Disease
- Pulmonary Fibrosis
- Recurrence
- Rhinitis
- Scleroderma
- Sinusitis
- Skin Diseases
- Skin Neoplasms
- Spinal Diseases
- Stomach Neoplasms
- Stroke
- Subarachnoid Hemorrhage
- Urinary Bladder Neoplasms
- Uterine Cervical Neoplasms

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- Uterine Diseases

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