Datasheet for KOA0273

# Human MMP-9 ELISA Kit

## Overview

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| **Description:** | Human MMP-9 AccuSignal ELISA Kit - KOA0273 |
| **Item No.:** | KOA0273 |
| **Size:** | 1 Kit |
| **Applications:** | ELISA |
| **Reactivity:** | Human |
| **Range:** | 156 pg/ml - 10000 pg/ml |

## Product Details

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| **Background:** | The 92-kD type IV collagenase is also known as 92-kD gelatinase, type V collagenase, gelatinase B, or matrix metalloproteinase-9(MMP9). The 72- and 92-kDa type IV collagenases are members of a group of secreted zinc metalloproteases. The matrix metalloproteinases(MMPs) are able to degrade the extracellular matrix and allow angiogenesis and tumor invasion. Gelatinase B, a matrix metalloproteinase that has proteolytic activity against connective tissue proteins, has been suggested to be important in the connective tissue remodeling processes associated with atherogenesis and plaque rupture. MMP-9 is predominantly expressed in neutrophils, macrophages, and mast cells, rather than in oncogene-positive neoplastic cells. The polymorphism of MMP-9 acts as a genetic factor for the development of smoking-induced pulmonary emphysema. The standard product used in this kit is recombinant human MMP-9 with the molecular mass of 95KDa. The detected MMP-9 includes zymogen and active enzyme. |
| **Synonyms:** | 82 kDa matrix metalloproteinase-9, 92 kDa gelatinase, 92 kDa type IV collagenase, CLG4B, Collagenase Type 4 beta, Collagenase type IV 92 KD, EC 3.4.24.35, Gelatinase 92 KD, Gelatinase B, Gelatinase beta, Gelatinase B, GELB, Macrophage gelatinase, MANDP2, Matrix metallopeptidase 9 (gelatinase B 92kDa gelatinase 92kDa type IV collagenase), Matrix metalloproteinase 9, MMP 9, MMP-9, MMP9, MMP9_HUMAN, Type V collagenase |
| **Detection Kit Type:** | ELISA Kit |
| **Detection Range:** | 156 pg/ml - 10000 pg/ml |
| **Sensitivity:** | <5 pg/ml |

## Target Details

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| **Gene Name:** | MMP9 |

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| **Reactivity:** | Human |
| **Immunogen:** | Expression system for standard: E.coli; Immunogen sequence: A20-D707 |
| **Purity/Specificity:** | Natural and recombinant human total MMP-9. There is no detectable cross-reactivity with other relevant proteins. |
| **Relevant Links:** | • UniProtKB - P14780<br>• NCBI - NP_004985.2<br>• GeneID - 4318<br>• KOA0273 Protocol |

## Application Details

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| **Tested Applications:** | ELISA |
| **Application Note:** | Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 10000pg/ml, 5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 312pg/ml, 156pg/ml human MMP-9 standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of human cell culture supernates, serum, plasma(heparin), saliva or urine to each empty well. It is recommended that each human MMP-9 standard solution and each sample be measured in duplicate. |
| **Assay Dilutions:** | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below. |
| **Other:** | DOE:<br>2-8° C - 04/29/2020<br>-20° C - 10/28/2020 |

## Formulation

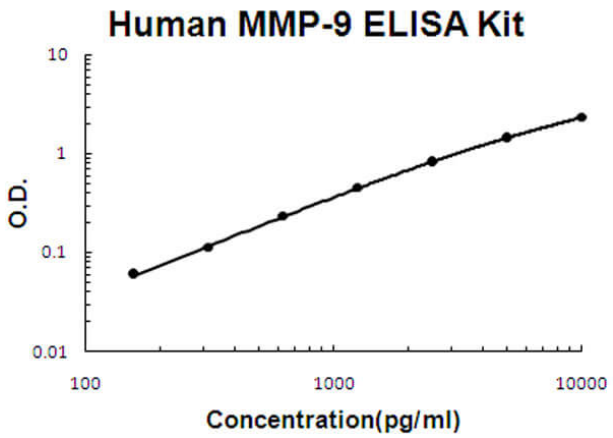
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| **Concentration:** | 1 Kit |
| **Anticoagulant:** | Heparin Sodium |

## Shipping & Handling

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| **Shipping Condition:** | Wet Ice |
| **Storage Condition:** | Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing. |

**Expiration:** See kit insert for complete instructions.

## Images




**ELISA**
Human MMP-9 AccuSignal ELISA Kit standard curve. Assay Range: 156pg/ml-10000pg/ml. Sensitivity: <5pg/ml.

## Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.