

**Datasheet for KOA0581****Human MMP-12 ELISA Kit****Overview**

|                      |                                             |
|----------------------|---------------------------------------------|
| <b>Description:</b>  | Human MMP-12 AccuSignal ELISA Kit - KOA0581 |
| <b>Item No.:</b>     | KOA0581                                     |
| <b>Size:</b>         | 1 Kit                                       |
| <b>Applications:</b> | ELISA                                       |
| <b>Reactivity:</b>   | Human                                       |
| <b>Range:</b>        | 62.5 pg/ml - 4000 pg/ml                     |

**Product Details**

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Background:</b>         | Matrix metalloproteinase-12(MMP12), also known as MME or ME, is an enzyme that in humans is encoded by the MMP12 gene. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.2. It is thought that the protein encoded by this gene is cleaved at both ends to yield the active enzyme, but this processing has not been fully described. The enzyme degrades soluble and insoluble elastin. It may play a role in aneurysm formation and studies in mice suggest a role in the development of emphysema. This gene may involved in tissue injury and remodeling. |
| <b>Synonyms:</b>           | EC 3.4.24.65, HME, Macrophage elastase, Macrophage metalloelastase, Macrophage metalloelastase, Matrix metalloproteinase 12 (macrophage elastase), Matrix metalloproteinase 12, Matrix metalloproteinase-12, MGC138506, MME, MMP 12, MMP-12, Mmp12, MMP12_HUMAN                                                                                                                                                                                                                                                                                                                           |
| <b>Detection Kit Type:</b> | ELISA Kit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Detection Range:</b>    | 62.5 pg/ml - 4000 pg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Sensitivity:</b>        | <10 pg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

**Target Details**

|                            |                                                                                                             |
|----------------------------|-------------------------------------------------------------------------------------------------------------|
| <b>Gene Name:</b>          | MMP12                                                                                                       |
| <b>Reactivity:</b>         | Human                                                                                                       |
| <b>Immunogen:</b>          | Expression system for standard: NSO; Immunogen sequence: L17-C470                                           |
| <b>Purity/Specificity:</b> | Natural and recombinant human MMP-12. There is no detectable cross-reactivity with other relevant proteins. |

|                        |                                                                                                                                                                                                                      |
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| <b>Relevant Links:</b> | <ul style="list-style-type: none"><li>• <a href="#">UniProtKB - P39900</a></li><li>• <a href="#">NCBI - NP_002417.2</a></li><li>• <a href="#">GeneID - 4321</a></li><li>• <a href="#">KOA0581 Protocol</a></li></ul> |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Application Details

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| <b>Tested Applications:</b> | ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Application Note:</b>    | Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 4000pg/ml, 2000pg/ml, 1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml human MMP-12 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 or plasma(heparin) to each empty well. It is recommended that each human MMP-12 standard solution and each sample be measured in duplicate. |
| <b>Assay Dilutions:</b>     | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>ELISA:</b>               | 62.5pg/ml-4000pg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Other:</b>               | DOE:<br>2-8° C - 1/24/2026<br>-20° C - 07252026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

## Formulation

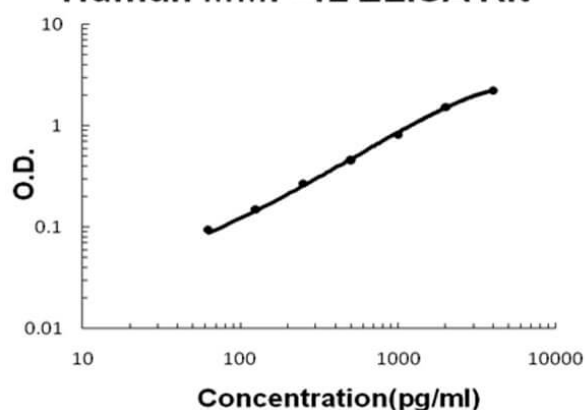
|                       |                |
|-----------------------|----------------|
| <b>Concentration:</b> | 1 Kit Kit      |
| <b>Anticoagulant:</b> | Heparin Sodium |

## Shipping & Handling

|                            |                                                                                                                                                                                                                                                                                                                               |
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| <b>Shipping Condition:</b> | Wet Ice                                                                                                                                                                                                                                                                                                                       |
| <b>Storage Condition:</b>  | 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. |
| <b>Expiration:</b>         | See kit insert for complete instructions.                                                                                                                                                                                                                                                                                     |

## Images

### Human MMP-12 ELISA Kit



### ELISA

Human MMP-12 AccuSignal ELISA Kit standard curve. Assay Range: 62.5pg/ml-4000pg/ml. Sensitivity: <10pg/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.