

## Datasheet for KOA0775

### Rat HGF ELISA Kit

#### Overview

|                      |                                        |
|----------------------|----------------------------------------|
| <b>Description:</b>  | Rat HGF AccuSignal ELISA Kit - KOA0775 |
| <b>Item No.:</b>     | KOA0775                                |
| <b>Size:</b>         | 1 Kit                                  |
| <b>Applications:</b> | ELISA                                  |
| <b>Reactivity:</b>   | Rat                                    |
| <b>Range:</b>        | 156 pg/ml - 10,000 pg/ml               |

#### Product Details

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <b>Background:</b>         | Hepatocyte growth factor (HGF) is the most potent mitogen for mature parenchymal hepatocytes in primary culture, and seems to be a hepatotrophic factor that acts as a trigger for liver regeneration after partial hepatectomy and liver injury. HGF has a relative molecular mass (Mr) of 82,000 and is a heterodimer composed of a large alpha-subunit of Mr 69,000 and a small beta-subunit of Mr 34,000. <sup>1</sup> The protein consists of 728 amino acid residues, including a possible signal peptide at the N-terminus. <sup>2</sup> HGF may serve as a paracrine mediator to control placental development and growth. <sup>3</sup> This growth factor may play an important role as a paracrine mediator of the proliferation of melanocytes and endothelial cells, as well as cells of epithelial origin. <sup>4</sup> The gene encoding the human HGF is assigned to human chromosome 7. |
| <b>Synonyms:</b>           | DFNB39, F TCF, Fibroblast derived tumor cytotoxic factor, Hepapoiectin A, Hepatocyte growth factor, Hepatocyte growth factor (hepapoietin A scatter factor, Hepatocyte growth factor beta chain, Hepatopoiectin-A, Hgf, HGF_HUMAN, HGFB, HPTA, Lung fibroblast derived mitogen, Scatter factor, SF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Detection Kit Type:</b> | ELISA Kit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Detection Range:</b>    | 156 pg/ml - 10,000 pg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Sensitivity:</b>        | <10 pg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

#### Target Details

|                    |     |
|--------------------|-----|
| <b>Gene Name:</b>  | HGF |
| <b>Reactivity:</b> | Rat |

|                            |                                                                                                                                                                                                                       |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Immunogen:</b>          | Expression system for standard: NSO; Immunogen sequence: Q33-R495(alpha) & V496-L728 (beta)                                                                                                                           |
| <b>Purity/Specificity:</b> | Natural and recombinant rat HGF. There is no detectable cross-reactivity with other relevant proteins.                                                                                                                |
| <b>Relevant Links:</b>     | <ul style="list-style-type: none"><li>• <a href="#">UniProtKB - P17945</a></li><li>• <a href="#">NCBI - NP_058713.1</a></li><li>• <a href="#">GeneID - 24446</a></li><li>• <a href="#">KOA0775 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 10,000pg/ml, 5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 312pg/ml, 156pg/ml rat HGF 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 rat cell culture supernates, serum or plasma(EDTA, citrate) to each empty well. It is recommended that each rat HGF 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>               | 156pg/ml-10,000pg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Other:</b>               | DOE:<br>2-8° C - 05/10/2022<br>-20° C - 11/10/2022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

## Formulation

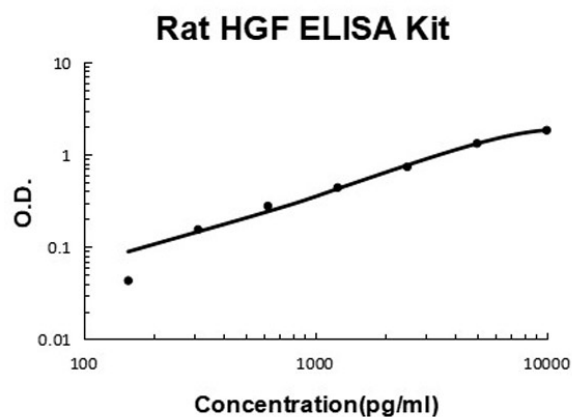
|                       |             |
|-----------------------|-------------|
| <b>Concentration:</b> | 1 Kit       |
| <b>Anticoagulant:</b> | Sodium EDTA |

## Shipping & Handling

|                            |                                                                                                                                                                                                                                                                                                                               |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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. |

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

## Images



### ELISA

Rat HGF ELISA Kit standard curve.

## 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.