

## Mouse Relaxin 1 ELISA Kit | RLN1 elisa kit

Mouse Relaxin 1 PicoKine ELISA Kit

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|------------------------------|----------------------------|
| CATALOG #<br><b>AAA46010</b> | REACTIVITY<br><b>Mouse</b> |
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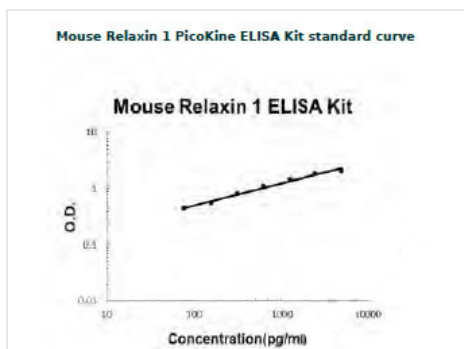
### PRODUCT SYNONYMS

Relaxin 1; Mouse Relaxin 1 PicoKine ELISA Kit; Prorelaxin 1; relaxin 1; H1RLX; Preprorelaxin H1; PreprorelaxinH1; Prorelaxin; Prorelaxin H1; ProrelaxinH1; REL1\_HUMAN; Relaxin 1 (H1); Relaxin A chain; Relaxin H1; Relaxin1; RelaxinH1; RLN 1; RLN1; RLX H1; RLXH 1; RLXH; RLN1 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                       |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Mouse                                                                                                                                                 |
| Specificity             | Natural and recombinant Mouse Rln1                                                                                                                    |
| Sequence Length         | 185                                                                                                                                                   |
| Samples                 | Cell culture supernatants, serum and plasma (heparin, edta)                                                                                           |
| Detection Range         | 78 pg/ml - 5,000 pg/ml                                                                                                                                |
| Sensitivity             | <10 pg/ml                                                                                                                                             |
| Intra-assay Precision   | Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.     |
| Inter-assay Precision   | Inter-Assay Precision (Precision across assays): Three samples of known concentration were tested in separate assays to assess inter-assay precision. |
| Preparation and Storage | Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)                            |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| Related Product Information for RLN1 elisa kit | <p>Principle of the Assay: The Picokine™ Mouse Rln1 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Mouse Rln1 with a 96-well strip plate that is pre-coated with antibody specific for Rln1. The detection antibody is a biotinylated antibody specific for Rln1. The capture antibody is monoclonal antibody from rat and the detection antibody is polyclonal antibody from goat. The kit contains recombinant Mouse Rln1 with immunogen: Expression system for standard: E.coli; Immunogen sequence: R23-R54 (B) &amp; E161-C185 (A). The kit is analytically validated with ready-to-use reagents. To measure Mouse Rln1, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product at 450nm is linearly proportional to Mouse Rln1 in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Mouse Rln1 in the sample.</p> <p>Background/Introduction: Relaxin 1 is a member of relaxin-like peptide family. Relaxin gene maps to mouse chromosome 19 near D19Mit23. Relaxin is a peptide hormone produced by the corpora lutea of ovaries during pregnancy in many mammalian species, including man. Relaxin widens the pubic bone and facilitates labor, it also softens the cervix (cervical ripening), and relaxes the uterine musculature. However, its significance may reach much further. Relaxin affects collagen metabolism, inhibiting collagen synthesis and enhancing its breakdown by increasing matrix metalloproteinases. It also enhances angiogenesis and is a potent renal vasodilator.</p> |
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NCBI AND UNIPROT INFORMATION

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|----------------------------------|--------------|
| NCBI GI #                        | 1350570      |
| NCBI GeneID                      | 19773        |
| UniProt Accession #              | P47932       |
| Molecular Weight                 | 20,571 Da    |
| NCBI Official Full Name          | Prorelaxin 1 |
| NCBI Official Synonym Full Names | relaxin 1    |
| NCBI Official Symbol             | Rln1         |
| NCBI Official Synonym Symbols    | Rln; rlx     |
| NCBI Protein Information         | prorelaxin 1 |
| UniProt Protein Name             | Prorelaxin 1 |
| UniProt Gene Name                | <b>Rln1</b>  |
| UniProt Synonym Gene Names       | Rln; Rlx     |
| UniProt Entry Name               | REL1_MOUSE   |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.