

## Human lactase ELISA Kit | LCT elisa kit

Human Lactase-phlorizin hydrolase, LCT ELISA Kit

CATALOG #  
**AAA112556**

REACTIVITY  
**Human**

### PRODUCT SYNONYMS

lactase; Human Lactase-phlorizin hydrolase; LCT ELISA Kit; Human Lactase-phlorizin hydrolase (LCT) ELISA kit; LAC; LPH; LPH1; lactase-glycosylceramidase; lactase-phlorizin hydrolase; lactase-phlorizin hydrolase-1; LCT elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                                               |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of human LCT. No significant cross-reactivity or interference between human LCT and analogues was observed. |
| Sequence Length         | 1927                                                                                                                                                                                |
| Samples                 | Serum, plasma, tissue homogenates, cell lysates                                                                                                                                     |
| Assay Type              | Quantitative Sandwich                                                                                                                                                               |
| Detection Range         | 34.38 pg/ml-2200 pg/ml                                                                                                                                                              |
| Sensitivity             | < 8.59 pg/ml                                                                                                                                                                        |
| Intra-assay Precision   | Intra-assay Precision (Precision within an assay): CV%<8%. Three samples of known concentration were tested twenty times on one plate to assess.                                    |
| Inter-assay Precision   | Inter-assay Precision (Precision between assays): CV%<10%. Three samples of known concentration were tested in twenty assays to assess.                                             |
| Preparation and Storage | Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.                                                   |

### ADDITIONAL INFORMATION

#### Related Product Information for LCT elisa kit

Principle of the Assay: This assay employs the quantitative sandwich enzyme immunoassay technique. Antibody specific for LCT has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any LCT present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for LCT is added to the wells. After washing, avidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of LCT bound in the initial step. The color development is stopped and the intensity of the color is measured.

### NCBI AND UNIPROT INFORMATION

|                           |                                |
|---------------------------|--------------------------------|
| NCBI GI #                 | <a href="#">32481206</a>       |
| NCBI GeneID               | <a href="#">3938</a>           |
| NCBI Accession #          | <a href="#">NP_002290.2</a>    |
| NCBI GenBank Nucleotide # | <a href="#">NM_002299.2</a>    |
| UniProt Accession #       | <a href="#">P09848; Q4ZG58</a> |

|                                  |                                                                                        |
|----------------------------------|----------------------------------------------------------------------------------------|
| Molecular Weight                 | 218,587 Da                                                                             |
| NCBI Official Full Name          | lactase-phlorizin hydrolase preproprotein                                              |
| NCBI Official Synonym Full Names | lactase                                                                                |
| NCBI Official Symbol             | LCT                                                                                    |
| NCBI Official Synonym Symbols    | LAC; LPH; LPH1                                                                         |
| NCBI Protein Information         | lactase-phlorizin hydrolase; lactase-glycosylceramidase; lactase-phlorizin hydrolase-1 |
| UniProt Protein Name             | Lactase-phlorizin hydrolase                                                            |
| UniProt Gene Name                | <b>LCT</b>                                                                             |
| UniProt Synonym Gene Names       | LPH                                                                                    |
| UniProt Entry Name               | LPH_HUMAN                                                                              |

**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.

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Online datasheet: <https://www.aaabiotech.com/lct-human-elisa-kits/lactase/112556>