

Human Lactase (LCT) ELISA Kit | LCT elisa kit

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CATALOG #
AAA14053

REACTIVITY
Human

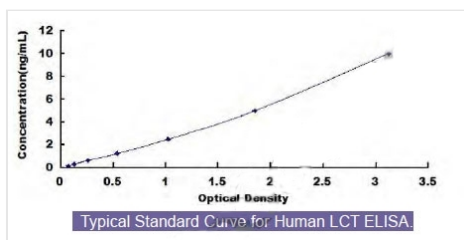
PRODUCT SYNONYMS

Lactase (LCT); Human Lactase (LCT) ELISA Kit; LAC; LPH; LPH1; Lactose-Phlorizin Hydrolase; LCT elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of LCT. No significant cross-reactivity or interference between LCT and analogues was observed.
Sequence Length	1927
Samples	Human tissue homogenates or other biological fluids
Assay Type	Quantitative Sandwich
Detection Range	0.156-10ng/mL
Sensitivity	< 0.05ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level LCT were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level LCT were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for LCT elisa kit

Intended Uses: The kit is a sandwich enzyme immunoassay for the in vitro quantitative measurement of LCT in human tissue homogenates or other biological fluids.

Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to LCT. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to LCT. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain LCT, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of LCT in the samples is then determined by comparing the O.D. of the samples to the standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	32481206
NCBI GeneID	3938
NCBI Accession #	NP_002290.2
NCBI GenBank Nucleotide #	NM_002299.3
UniProt Accession #	P09848; Q4ZG58
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
UniProt Protein Name	Lactase-phlorizin hydrolase
UniProt Gene Name	LCT
UniProt Synonym Gene Names	LPH

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://stage.aaabiotech.com/human-elisa-kits/lactase-lct/14053>