

Human Lactotransferrin/LTF ELISA Kit | LTF elisa kit

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CATALOG #
AAA258420

REACTIVITY
Human

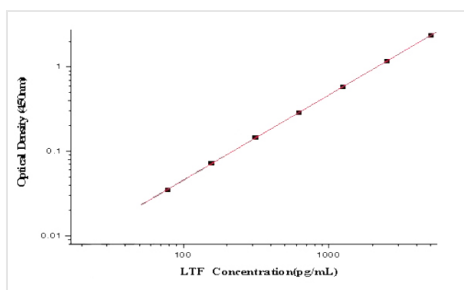
PRODUCT SYNONYMS

Lactotransferrin/LTF; Human Lactotransferrin/LTF ELISA Kit; Lactoferrin/LTF ELISA Kit; Human; lactotransferrin; GIG12 ELISA Kit; HEL110 ELISA Kit; HLF2 ELISA Kit; LF ELISA Kit; LTF elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay recognizes both recombinant and natural Human LTF. The factors listed below were prepared at 50 ng/mL in dilution buffer and assayed for cross-reactivity. No cross-reactivity was observed.
Assay Type	Quantitative Sandwich
Samples	Serum
Sensitivity	< 29.8 pg/mL
Intra-assay Precision	Three samples of known concentration were tested twenty times on one plate to assess intra-assay precision.
Inter-assay Precision	Three samples of known concentration were tested twenty times on one plate to assess intra-assay precision.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for LTF elisa kit	Background: Lactotransferrin, also known as Lactoferrin, Talalactoferrin and LTF, is a secreted protein which belongs to the transferrin family. Transferrins are iron binding transport proteins which can bind two Fe³⁺ ions in association with the binding of an anion, usually bicarbonate. Lactotransferrin has antimicrobial activity which depends on the extracellular cation concentration. Lactoferroxins A, B and C have opioid antagonist activity. Lactoferroxin A shows preference for mu-receptors, while lactoferroxin B and lactoferroxin C have somewhat higher degrees of preference for kappa-receptors than for mu-receptors. Lactoferrin / LTF is a globular glycoprotein that is widely represented in various secretory fluids, such as milk, saliva, tears, and nasal secretions. Lactoferrin / LTF is also present in secondary granules of PMN and is secreted by some acinar cells. Lactoferrin / LTF can be purified from milk or produced recombinantly. Human colostrum has the highest concentration, followed by human milk, then cow milk. Lactoferrin / LTF is one of the components of the immune system of the body; it has antimicrobial activity (bacteriocide, fungicide) and is part of the innate defense, mainly at mucoses. In particular, lactoferrin provides antibacterial activity to human infants. Lactoferrin interacts with DNA and RNA, polysaccharides and heparin, and shows some of its biological functions in complexes with these ligands. Principle of the Assay: The principle of this ELISA kit is based on the solid phase sandwich enzyme immunoassay technique. A monoclonal antibody specific for Human Lactotransferrin/LTF has been pre-coated onto well plate strips. Standards and samples are added to the wells and Human Lactotransferrin/LTF present in the sample is bound by the immobilized antibody. After incubation the wells are washed and a horseradish peroxidase conjugated anti-Human Lactotransferrin/LTF antibody is added, producing an antibody-antigen-antibody "sandwich complex". Following a wash to remove any unbound antibody a TMB substrate solution is loaded and color develops in proportion to the amount of Human Lactotransferrin/LTF bound. The reaction is stopped by the addition of a stop solution and the intensity of the color can be measured at 450 nm (See schematics below). Intended Uses: For the quantitative determination of Human Lactotransferrin/LTF concentration in serum.
References	Sánchez L, et al., 1992, Arch. Dis. Child. 67 (5): 657-61. Wakabayashi H, et al., 2000, J. Antimicrob. Chemother. 46 (4): 595-602. Nozaki A, et al., 2003, J. Biol. Chem. 278 (12): 10162-73. Azzam HS, et al., 2007, Liver Int. 27 (1): 17-25.

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/lactotransferrin-ltf/258420>