

Human Lactoferrin (LTF) ELISA Kit | LTF elisa kit

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CATALOG #
AAA331912

REACTIVITY
Human

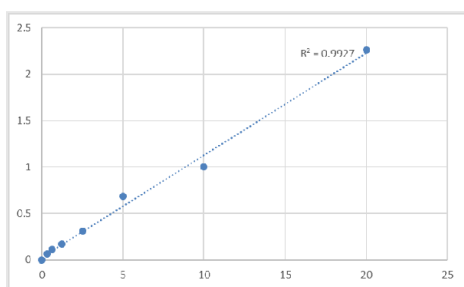
PRODUCT SYNONYMS

Lactoferrin (LTF); Human Lactoferrin (LTF) ELISA Kit; LTF; GIG12; HLF2; LF; growth-inhibiting protein 12; lactoferrin; neutrophil lactoferrin; talalactoferrin; LTF elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Lactoferrin (LTF) ELISA Kit has high sensitivity and excellent specificity for detection of Human LTF. No significant cross-reactivity or interference between Human LTF and analogues was observed.
Sequence Length	475
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Lactoferrin (LTF) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for LTF elisa kit	Description: This Human Lactoferrin (LTF) ELISA Kit employs a two-site sandwich ELISA to quantitate LTF in samples. An antibody specific for LTF has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any LTF present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for LTF is added to the wells. After washing, Streptavidin 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 LTF bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: LTF, a globular multifunctional protein with antimicrobial activity (bacteriocide, fungicide), is part of the innate defense, mainly at mucoses. Lactoferrin is found in milk and many mucosal secretions such as tears and saliva. Lactoferrin is also present in secondary granules of PMN and also is secreted by some acinar cells. Human colostrum has the highest concentration, followed by human milk, then cow milk. Lactoferrin belongs to the transferrin family proteins (TF, melanotransferrin, ovotransferin, etc.). Its molecular mass is 80,000 u (80 kDa).Lactoferrin antimicrobial activity is due partly to its high affinity for Fe (ferric state). LF proteolysis produces lactoferricin, kaliocin-1 small peptides with antimicrobial activity.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	2104522
NCBI GeneID	4057
UniProt Accession #	P02788
NCBI Official Full Name	lactoferrin, partial
NCBI Official Synonym Full Names	lactotransferrin
NCBI Official Symbol	LTF
NCBI Official Synonym Symbols	LF; HLF2; GIG12; HEL110
NCBI Protein Information	lactotransferrin
UniProt Protein Name	Lactotransferrin
UniProt Gene Name	LTF
UniProt Synonym Gene Names	GIG12; LF; Lactoferrin; Lfcin-H
UniProt Entry Name	TRFL_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.