

Canine Lactoferrin (LTF) ELISA Kit | LTF elisa kit

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CATALOG #
AAA139438

REACTIVITY
Canine

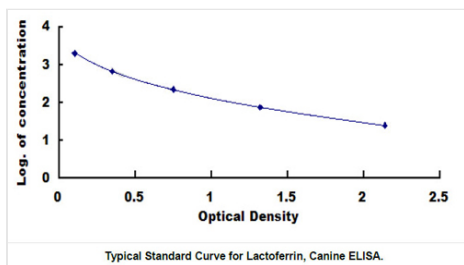
PRODUCT SYNONYMS

Lactoferrin (LTF); Canine Lactoferrin (LTF) ELISA Kit; LTF elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Canine
Specificity	This assay has high sensitivity and excellent specificity for detection of lactoferrin. No significant cross-reactivity or interference between lactoferrin and analogues was observed.
Sequence Length	475
Samples	Canine serum, plasma, breast milk and other biological fluids
Assay Type	Competitive
Detection Range	24.69-2,000pg/mL
Sensitivity	The minimum detectable dose of lactoferrin is typically less than 8.94pg/mL. The sensitivity of this assay, or Lower Limit of Detection (LLD) was defined as the lowest protein concentration that could be differentiated from zero. It was determined by subtracting two standard deviations to the mean optical density value of twenty zero standard replicates and calculating the corresponding concentration.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level lactoferrin 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 lactoferrin were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Intended Uses	The kit is a competitive inhibition enzyme immunoassay technique for the in vitro quantitative measurement of lactoferrin in canine serum, plasma, breast milk and other biological fluids.
Preparation and Storage	For unopened kit, all the reagents should be kept according to the label on each vial. The Standard, Detection Reagent A, Detection Reagent B and the 96-well strip plate should be stored at -20 degree C while others should be at 4 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for LTF elisa kit	Principle of the assay: This assay employs the competitive inhibition enzyme immunoassay technique. A monoclonal antibody specific to lactoferrin has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled lactoferrin and unlabeled lactoferrin (Standards or samples) with the pre-coated antibody specific to lactoferrin. After incubation the unbound conjugate is washed off. Next, avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. The amount of bound HRP conjugate is reverse proportional to the concentration of lactoferrin in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of lactoferrin in the sample.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	2104522
NCBI GeneID	4057
UniProt Accession #	P02788; O00756; Q16780; Q16785; Q16786; Q16789; Q5DSM0; Q8IU92; A8K9U8; B2MV13; B7Z4X2; E7EQH5
Molecular Weight	73,161 Da
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; epididymis luminal protein 110; growth-inhibiting protein 12; kaliocin-1; lactoferricin; lactoferroxin; neutrophil lactoferrin; talalactoferrin
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.

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Online datasheet: <https://stage.aaabiotech.com/canine-elisa-kits/lactoferrin-ltf/139438>