

Lactoferrin (LTF) Active Protein | LTF active protein

Active Lactoferrin (LTF)

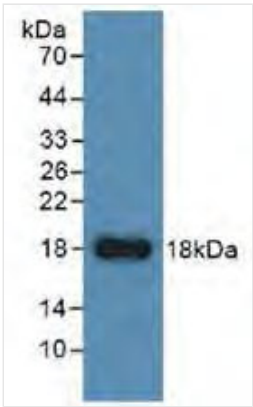
CATALOG # AAA149239	HOST E.coli	REACTIVITY Homo sapiens (Human)	APPLICATIONS Western Blot, SDS-Page
-------------------------------	-----------------------	---	---

PRODUCT SYNONYMS

Lactoferrin (LTF); Active Lactoferrin (LTF); HLF2; LF; GIG12; Lactotransferrin; Growth-inhibiting protein 12; Talalactoferrin; Lfcin-H; Kaliocin-1; LTF active protein

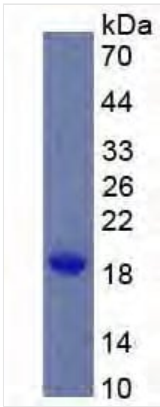
PRODUCT SPECIFICATIONS

Host	E.coli
Reactivity	Homo sapiens (Human)
Purity/Purification	>95%
Form/Format	20mM Tris, 150mM NaCl, pH8.0, containing 0.01% SKL, 5% Trehalose.
Concentration	Original Concentration: 250ug/mL (varies by lot)
Applicable Applications for LTF active protein	WB (Western Blot), SDS-PAGE, Immunogen, Positive Control
Source	Prokaryotic expression
Residues	Glu542~Gln685
Tags	N-terminal His Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Traits	Freeze-dried powder
Predicted isoelectric point	7.7
Usage	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Storage: Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.



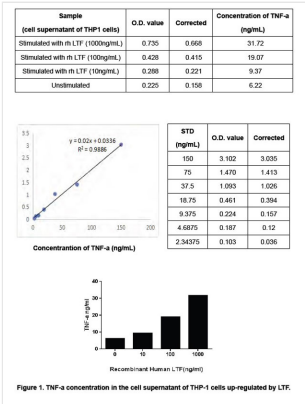
WB (Western Blot)

Sample: Recombinant LTF, Human; Antibody: Rabbit Anti-Human LTF Ab



SDS-PAGE

Sample: Active recombinant LTF, Human



ERYGYTGA
FRCLAENAGD VAFVKDVTVL QNTDGNNEA WAKDLKADF ALLCLDGKRR
PVTEARSCHL AMAPNHAVVS RMDKVERLKQ VLLHQQAKFG RNSDCDPKF
CLFQSETKNL LFNDNTECLA RLHGKTTYEK YLGPQ

Sequence

Bioactivity

Lactoferrin (LF), also known as lactotransferrin (LTF), is a multifunctional protein of the transferrin family. Lactoferrin is one of the components of the immune system of the body; it has antimicrobial activity (bactericide, 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. LTF is known to activate immune cells to produce several cytokines, such as tumor necrosis factor TNF-α, thus, a stimulation assay was conducted to detect the activity of LTF using human monocytic cell line THP-1. Briefly, THP-1 cells were seeded into wells of 24-well plates at a density of 5×10⁶ cells/mL in RPMI-1640 with the addition of various concentrations of recombinant human LTF. After incubation for 20 hours, the concentration of TNF-α in the cell supernatant was detected using an ELISA kit. TNF-α levels in the cell supernatant of spleen cells increased significantly after stimulated with LTF, the data was shown in table 1.

ADDITIONAL INFORMATION

Product Categories/Family for LTF active protein	Tumor immunity; Infection immunity
--	------------------------------------

NCBI AND UNIPROT INFORMATION

NCBI GI #	2104522
NCBI GeneID	4057
UniProt Accession #	P02788
Molecular Weight	Predicted Molecular Mass: 17.5kDa Accurate Molecular Mass: 18kDa as determined by SDS-PAGE reducing conditions.
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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/e-coli-homo-sapiens-human-active-protein/lactoferrin-ltf/149239>